

Fig.1

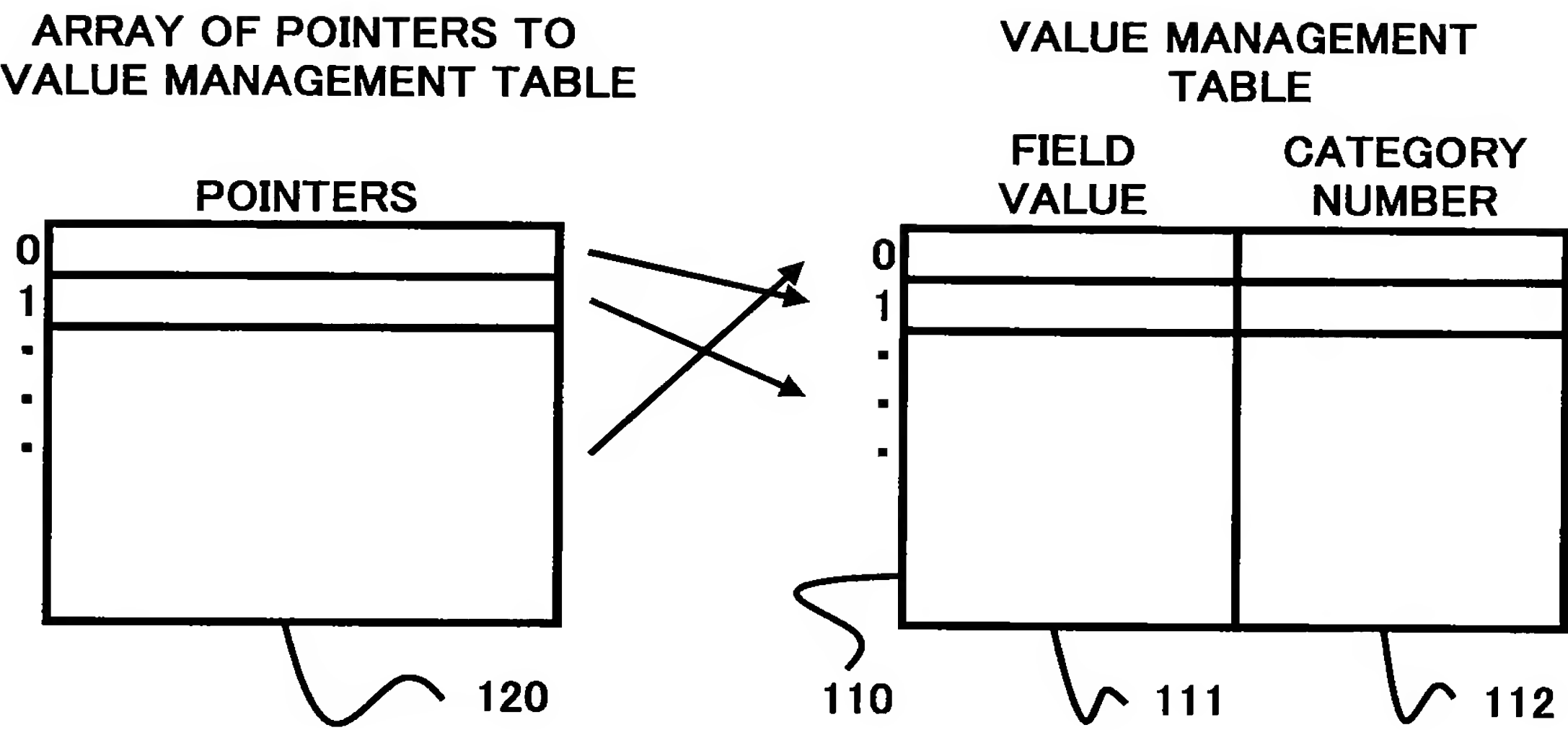


Fig.2

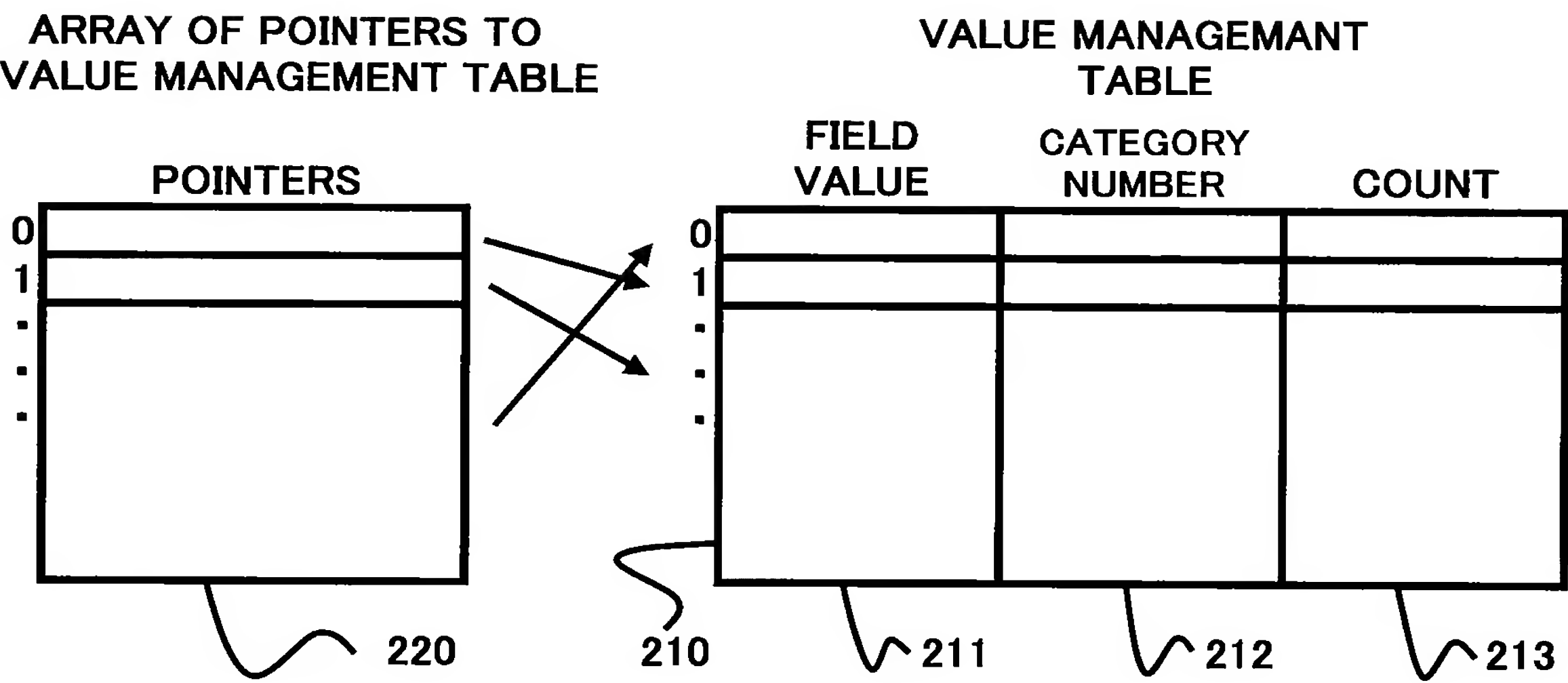


Fig.3

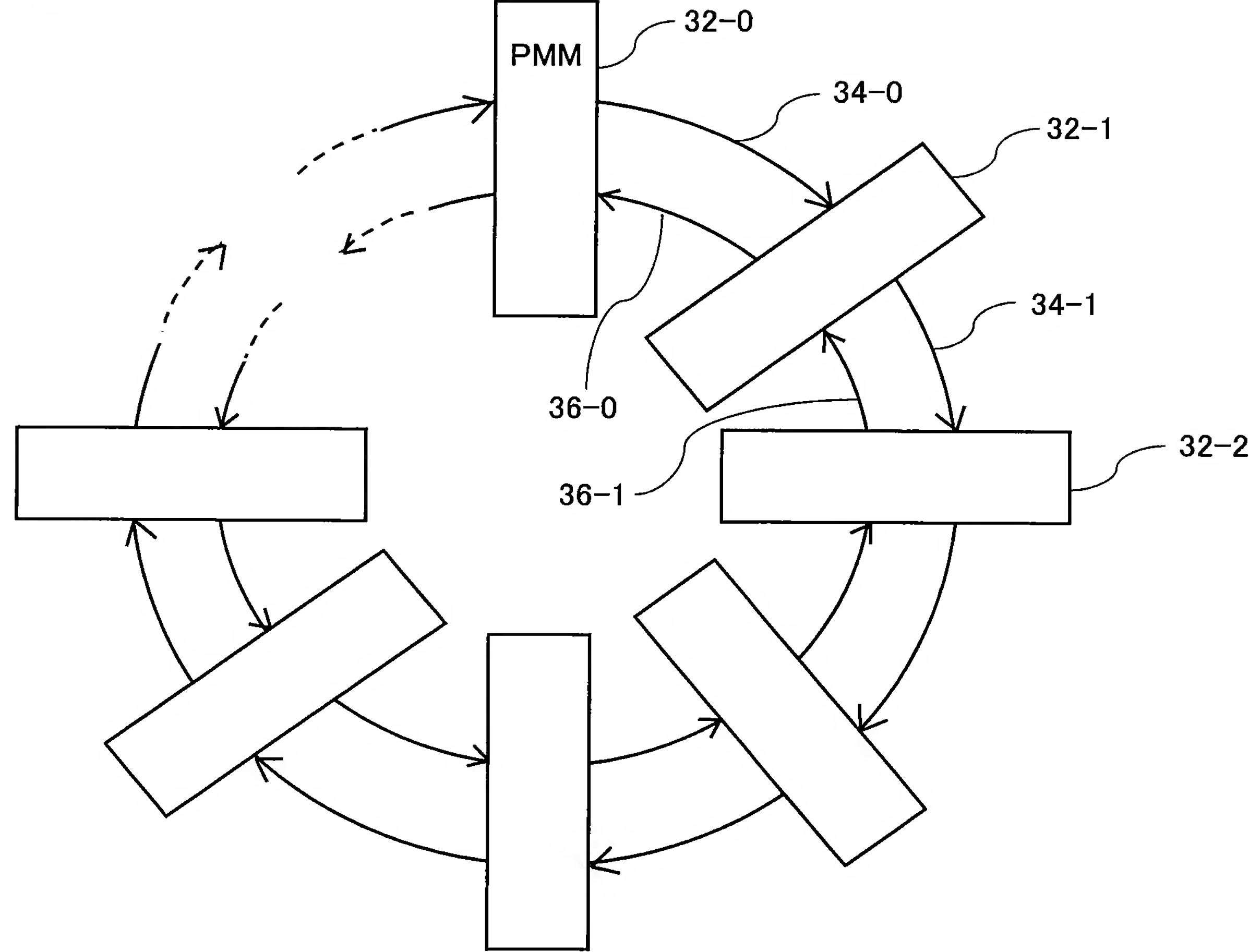


Fig.4

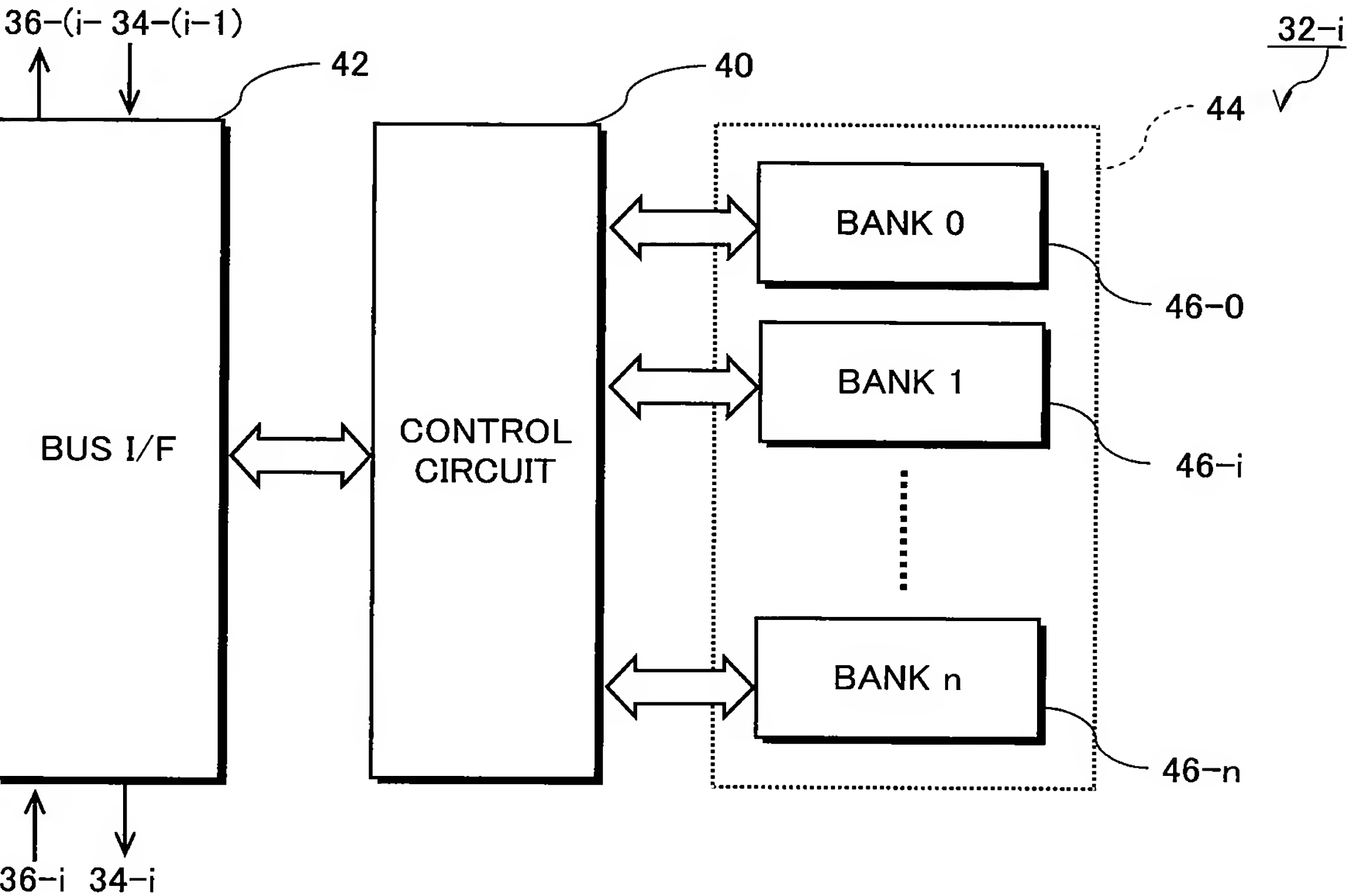


Fig.5

RECORD NUMBER	SEX	AGE	HEIGHT(cm)
0	FEMALE	3	78
1	MALE	1	82
2	FEMALE	2	69
3	FEMALE	1	82
4	MALE	3	91
5	FEMALE	1	76
6	FEMALE	1	78
7	FEMALE	2	84
8	MALE	3	87
9	FEMALE	3	80

Fig.6

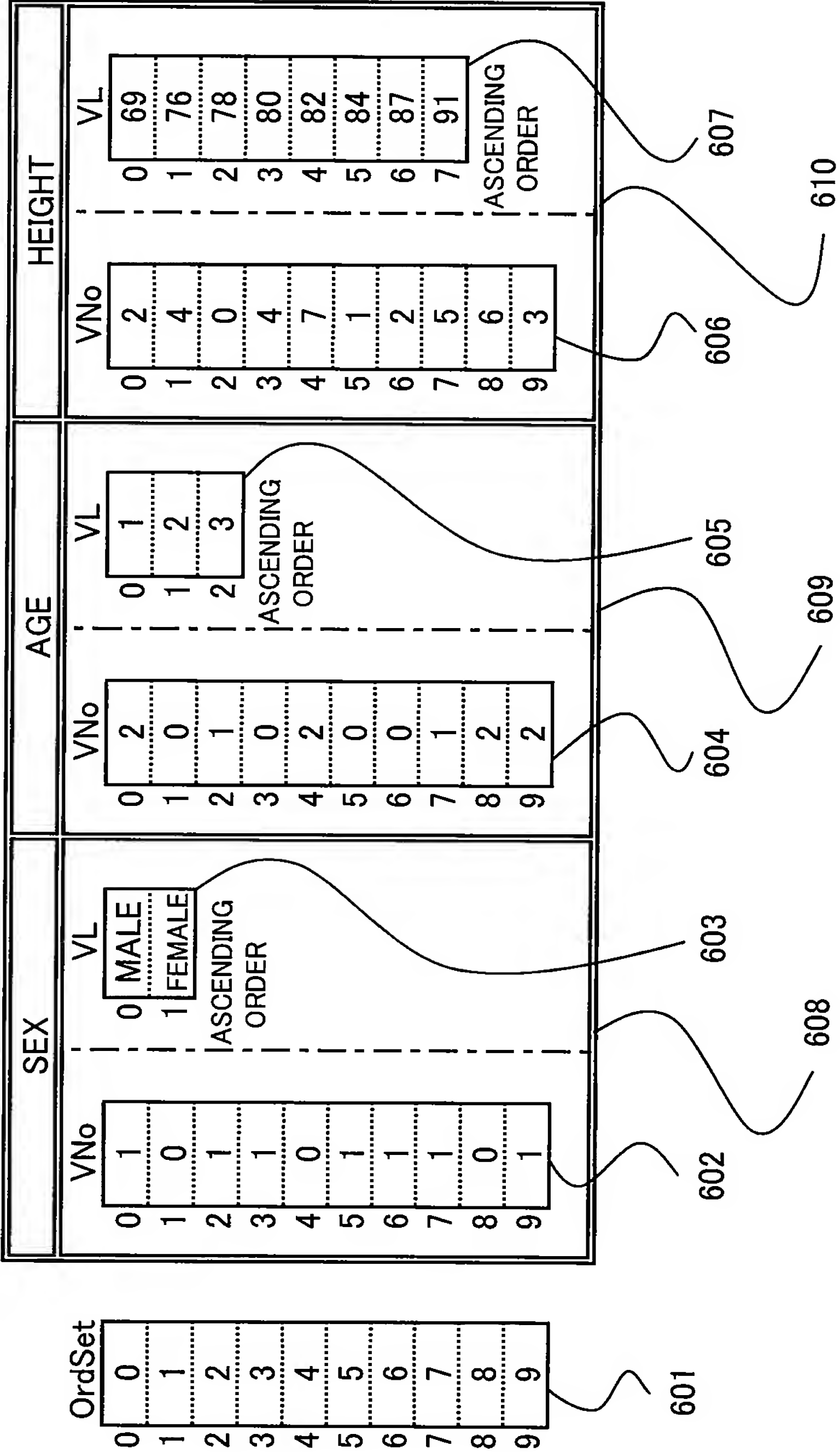


Fig.7

OFFSET= 0											
PMM-0		SEX (PMM-0)		AGE (PMM-0)		HEIGHT (PMM-0)					
		VNo	VL	GVNo	VNo	VL	GVNo	VNo	VL	GVNo	
0	FEMALE	1	0	0	0	1	0	0	69	0	
1	MALE	0	1	1	1	2	1	1	78	1	2
2	FEMALE	1	0	0	2	3	2	2	82	2	4
		GOrd OrdSet		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER	
0		0	0								
1		1	1								
2		2	2								
PMM-1		SEX (PMM-1)		AGE (PMM-1)		HEIGHT (PMM-1)					
		VNo	VL	GVNo	VNo	VL	GVNo	VNo	VL	GVNo	
0	FEMALE	1	0	0	0	1	0	0	82	0	4
1	MALE	0	1	1	1	3	1	1	91	1	7
		GOrd OrdSet		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER	
0		3	0								
1		4	1								
PMM-2		SEX (PMM-2)		AGE (PMM-2)		HEIGHT (PMM-2)					
		VNo	VL	GVNo	VNo	VL	GVNo	VNo	VL	GVNo	
0	FEMALE	0	0	1	0	1	0	0	76	0	1
1	FEMALE	0	1	0	1	2	1	1	78	1	2
2	FEMALE	0	0	0	2	0	0	2	84	2	5
		GOrd OrdSet		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER	
0		5	0								
1		6	1								
2		7	2								
PMM-3		SEX (PMM-3)		AGE (PMM-3)		HEIGHT (PMM-3)					
		VNo	VL	GVNo	VNo	VL	GVNo	VNo	VL	GVNo	
0	MALE	0	0	0	0	3	0	0	80	0	3
1	FEMALE	1	1	1	1	0	0	1	87	1	6
		GOrd OrdSet		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER		ASCENDING ORDER	
0		8	0								
1		9	1								

Fig.8

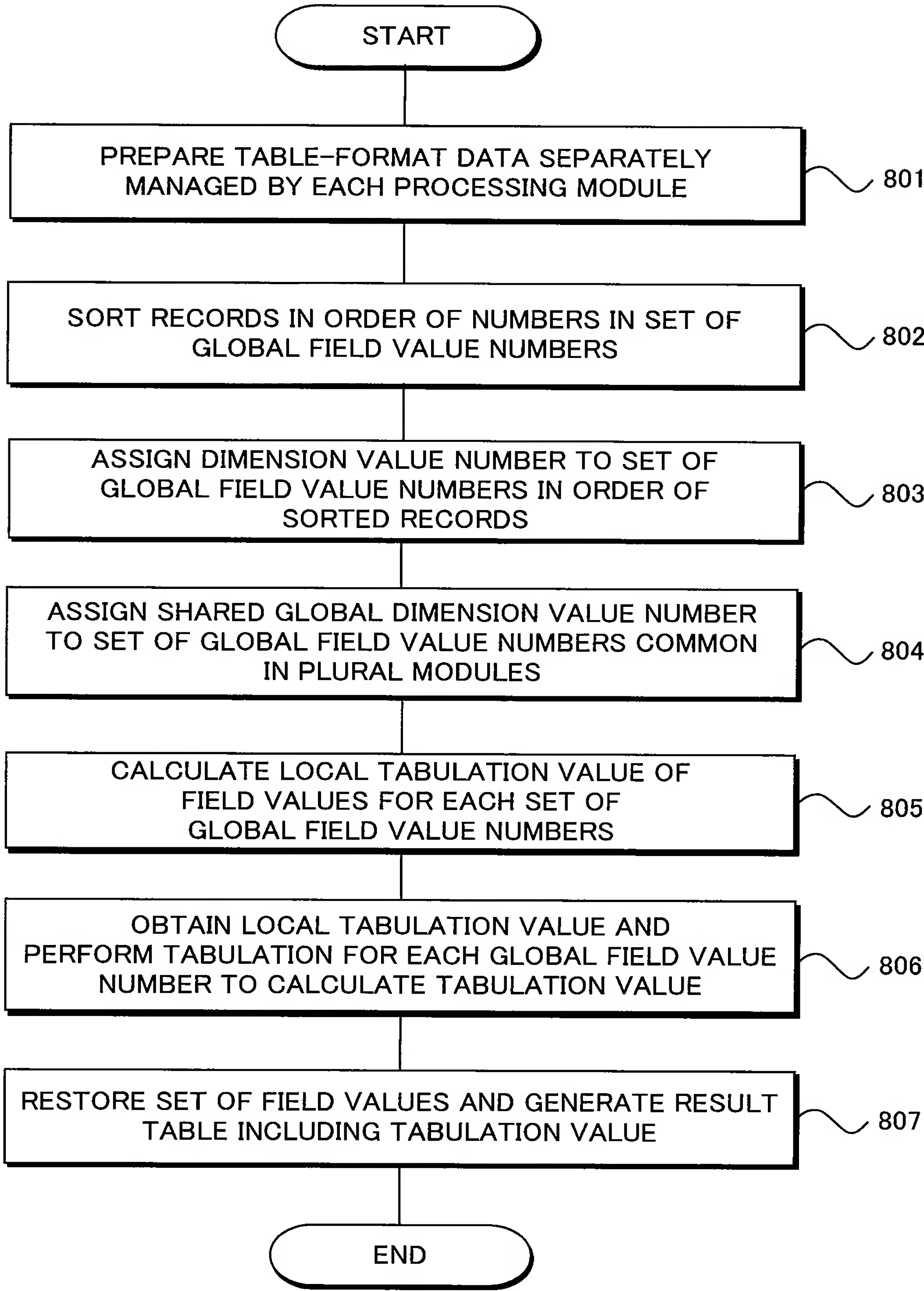


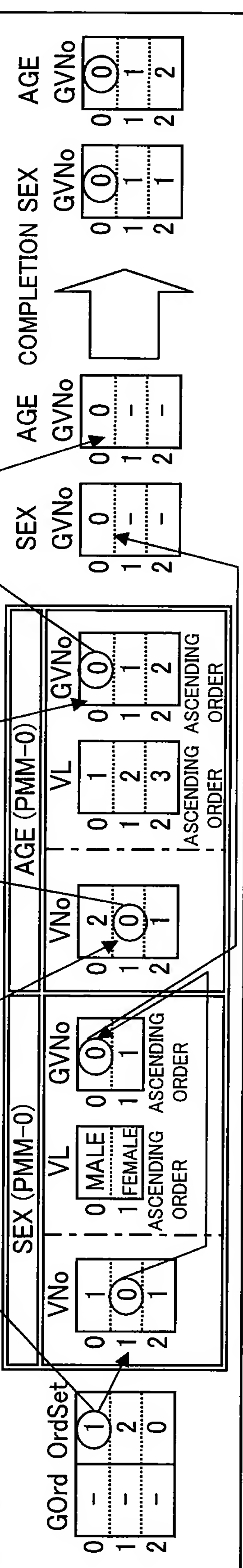


Fig.9

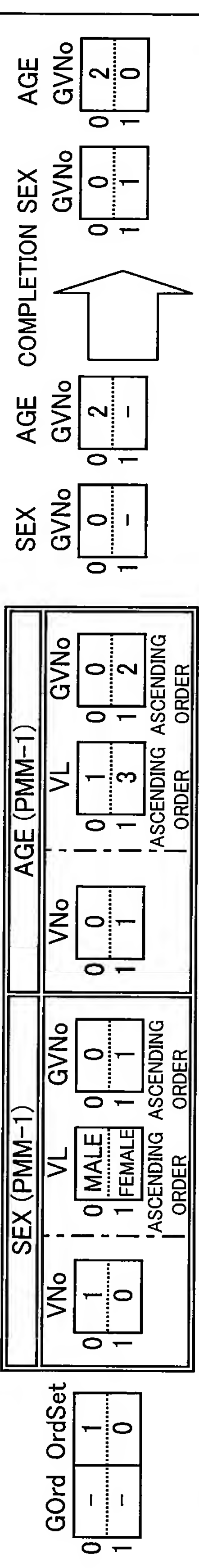
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0					0					0					0					0					0				
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Fig.10

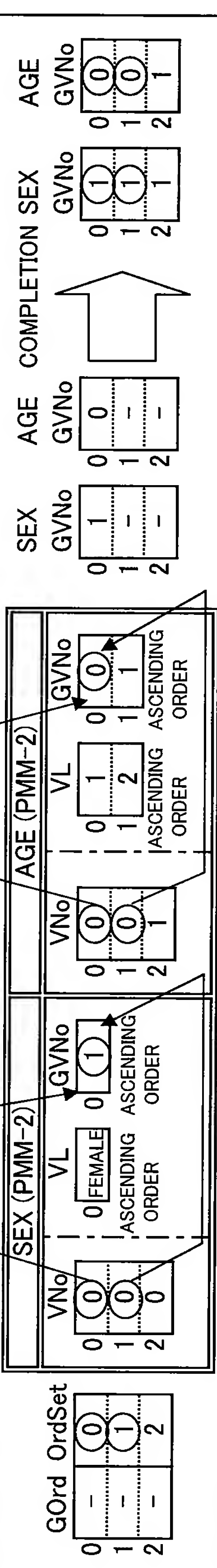
OFFSET= 0



OFFSET= 3



OFFSET= 5



OFFSET= 8

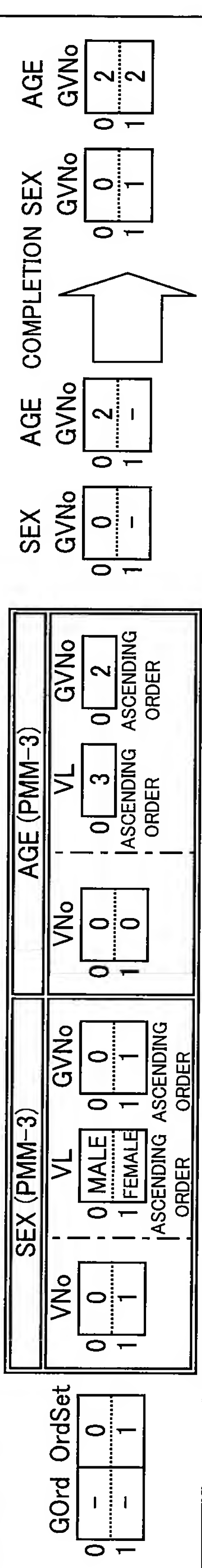


Fig.11

GENERATE LOCAL DIMENSION VALUE NUMBER LDimNo  
(LOCALLY ASSIGN ORDER TO DIMENSION)

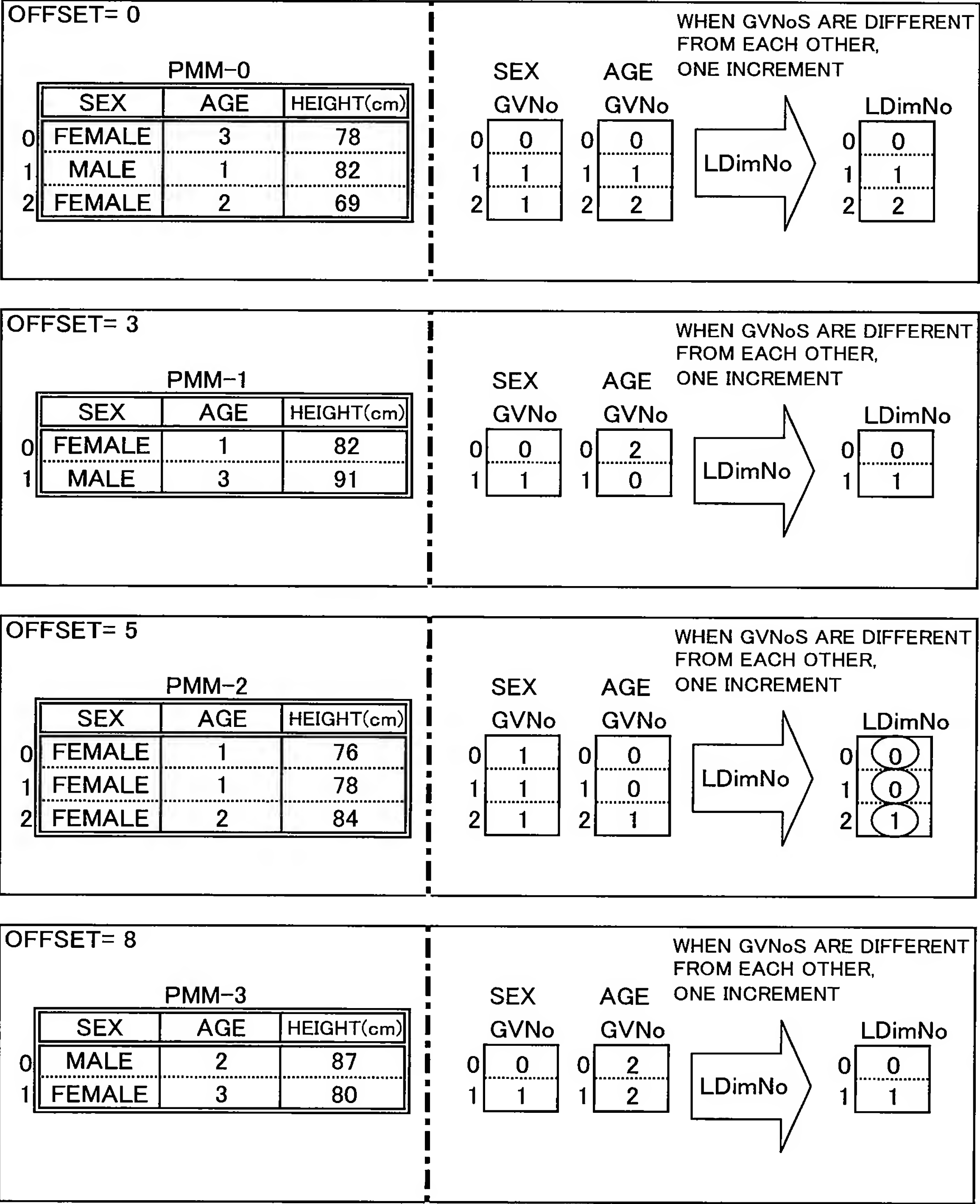


Fig.12

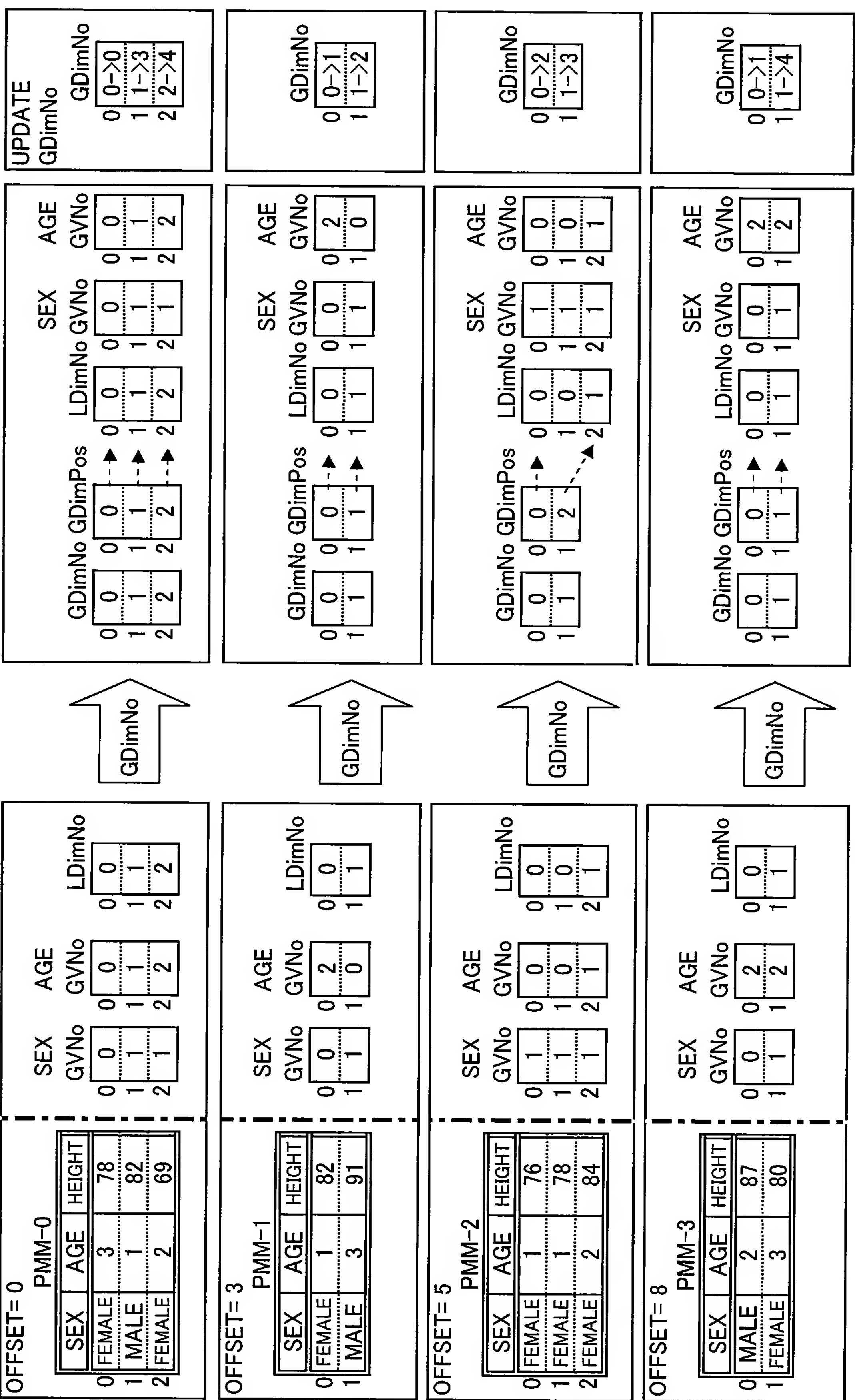


Fig.13

	LDimNo	GNo1	GNo2	GDimNo
PMM-0	0	0	0	0
	1	1	1	3
	2	1	2	4
PMM-1	0	0	2	1
	1	1	0	2
PMM-2	0	1	0	2
	1	1	1	3
PMM-3	0	0	2	1
	1	1	1	2

Fig.14

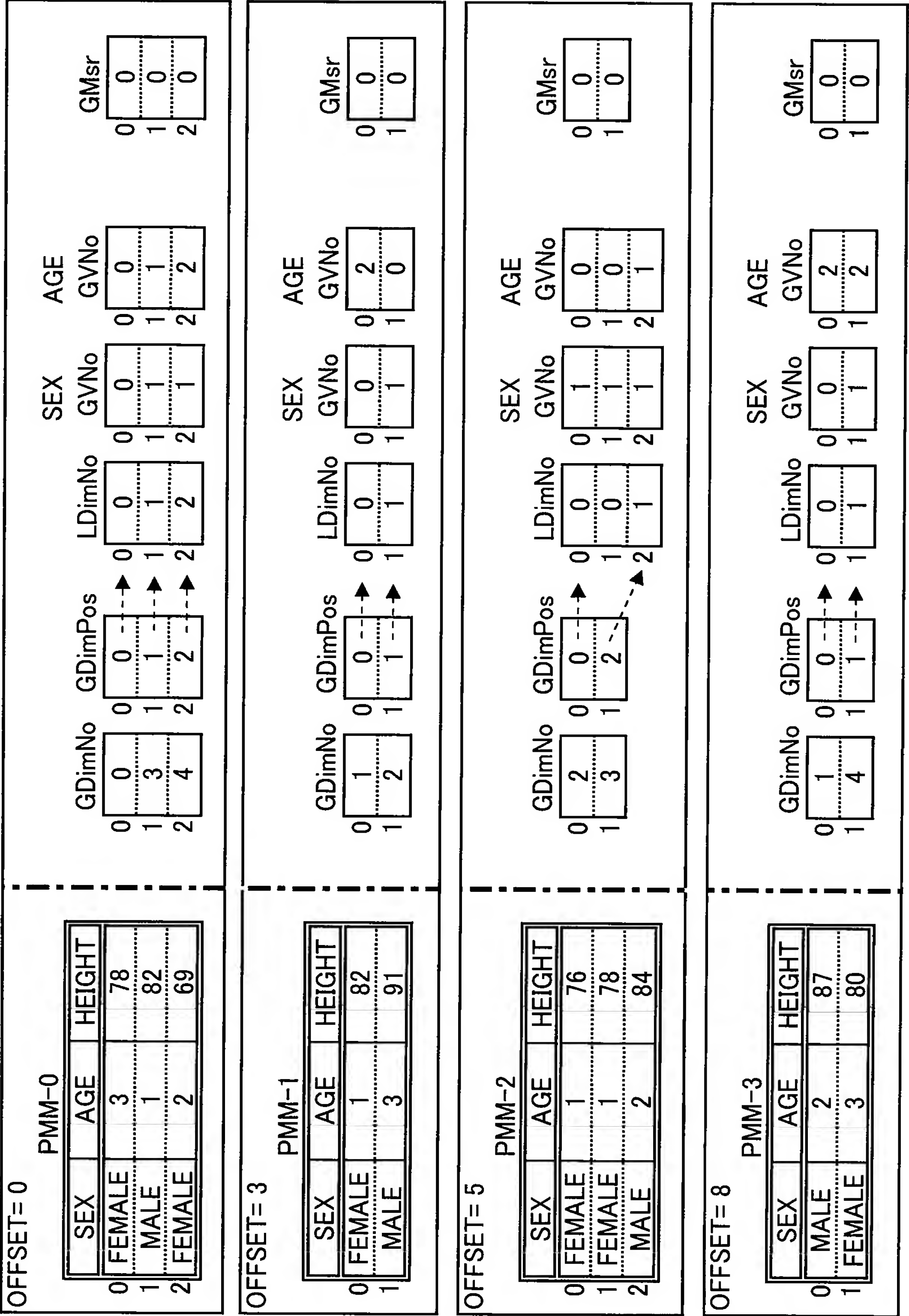


Fig.15

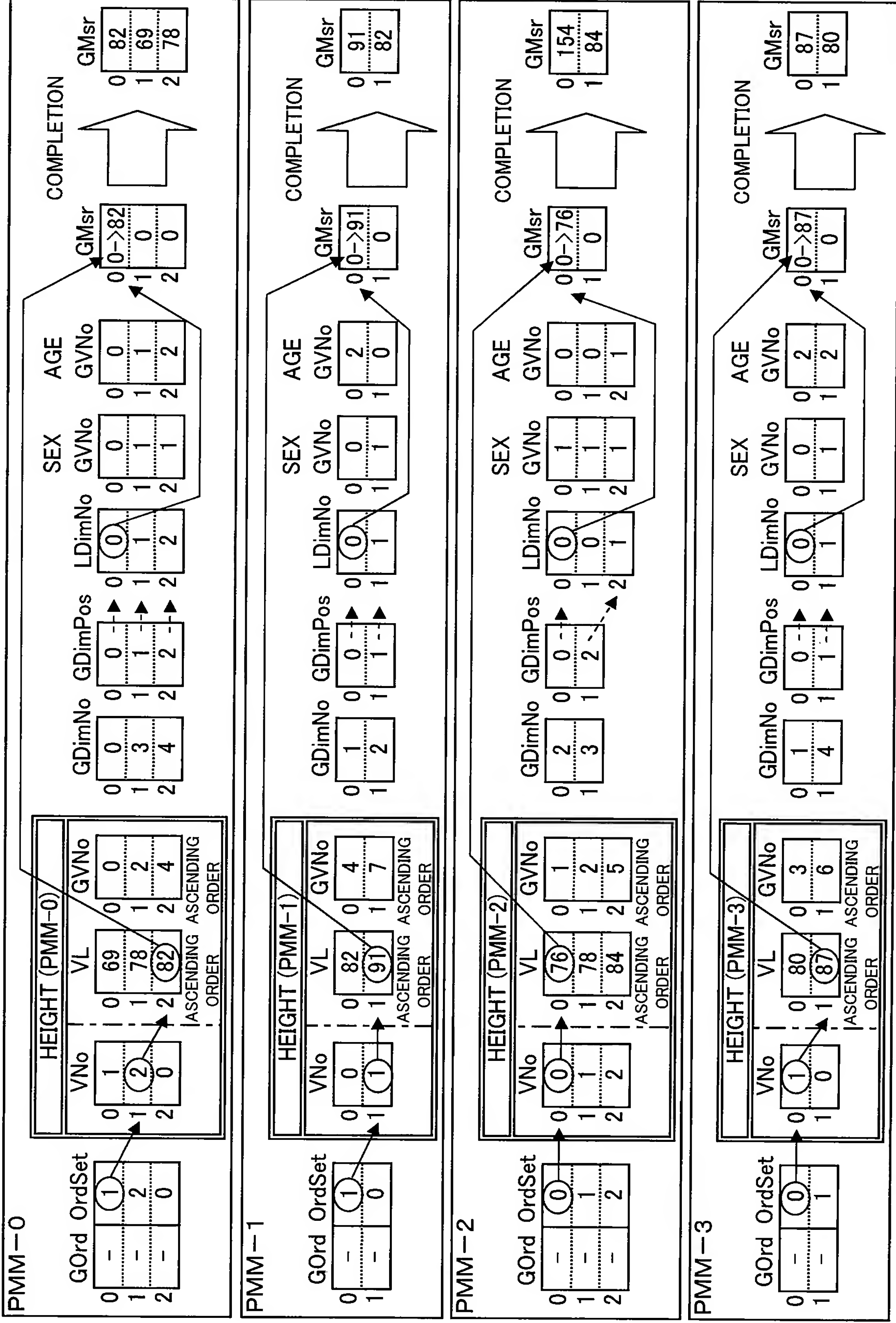


Fig.16

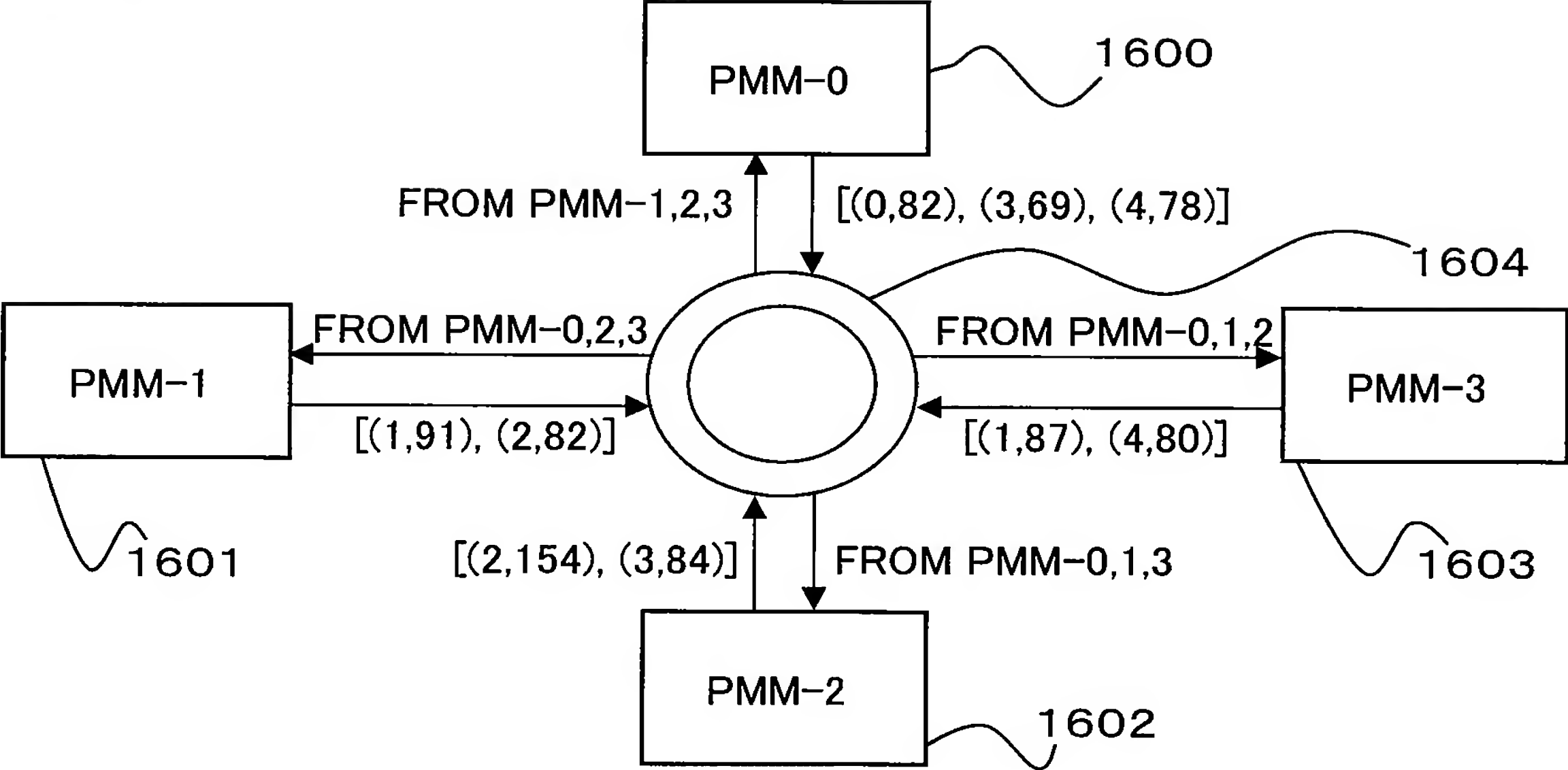






Fig.18

PMM—0

	GDimNo		GMSr
0	0	0	82
1	3	1	153
2	4	2	158

COMPLETION

	GDimNo		GMSr
0	0	0	82
1	3	1	153
2	4	2	158

PMM—1

	GDimNo		GMSr
0	1	0	178
1	2	1	236

COMPLETION

	GDimNo		GMSr
0	1	0	178
1	2	1	236

PMM—2

	GDimNo		GMSr
0	2	0	236
1	3	1	153

COMPLETION

	GDimNo		GMSr
<del>0</del>	<del>2</del>	<del>0</del>	<del>236</del>
<del>1</del>	<del>3</del>	<del>1</del>	<del>153</del>

PMM—3

	GDimNo		GMSr
0	1	0	178
1	4	1	158

COMPLETION

	GDimNo		GMSr
<del>0</del>	<del>1</del>	<del>0</del>	<del>178</del>
<del>1</del>	<del>4</del>	<del>1</del>	<del>158</del>

Fig.19

PMM—0		
GDImNo	GMsr	
0	0	82
1	3	153
2	4	158

SEX			AGE		
GDImPos	LDImNo	GVNo	VL	GVNo	
0	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	

SEX			AGE		
VL	GVNo		VL	GVNo	
0	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	

SEX			AGE		
VL	GVNo		VL	GVNo	
0	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	

SEX			AGE		
VL	GVNo		VL	GVNo	
0	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	

PMM—1		
GDImNo	GMsr	
0	1	178
1	2	236

SEX			AGE		
VL	GVNo		VL	GVNo	
0	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	

SEX			AGE		
VL	GVNo		VL	GVNo	
0	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	

SEX			AGE		
VL	GVNo		VL	GVNo	
0	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	

SEX			AGE		
VL	GVNo		VL	GVNo	
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2	2	2	2	2	

Fig.20

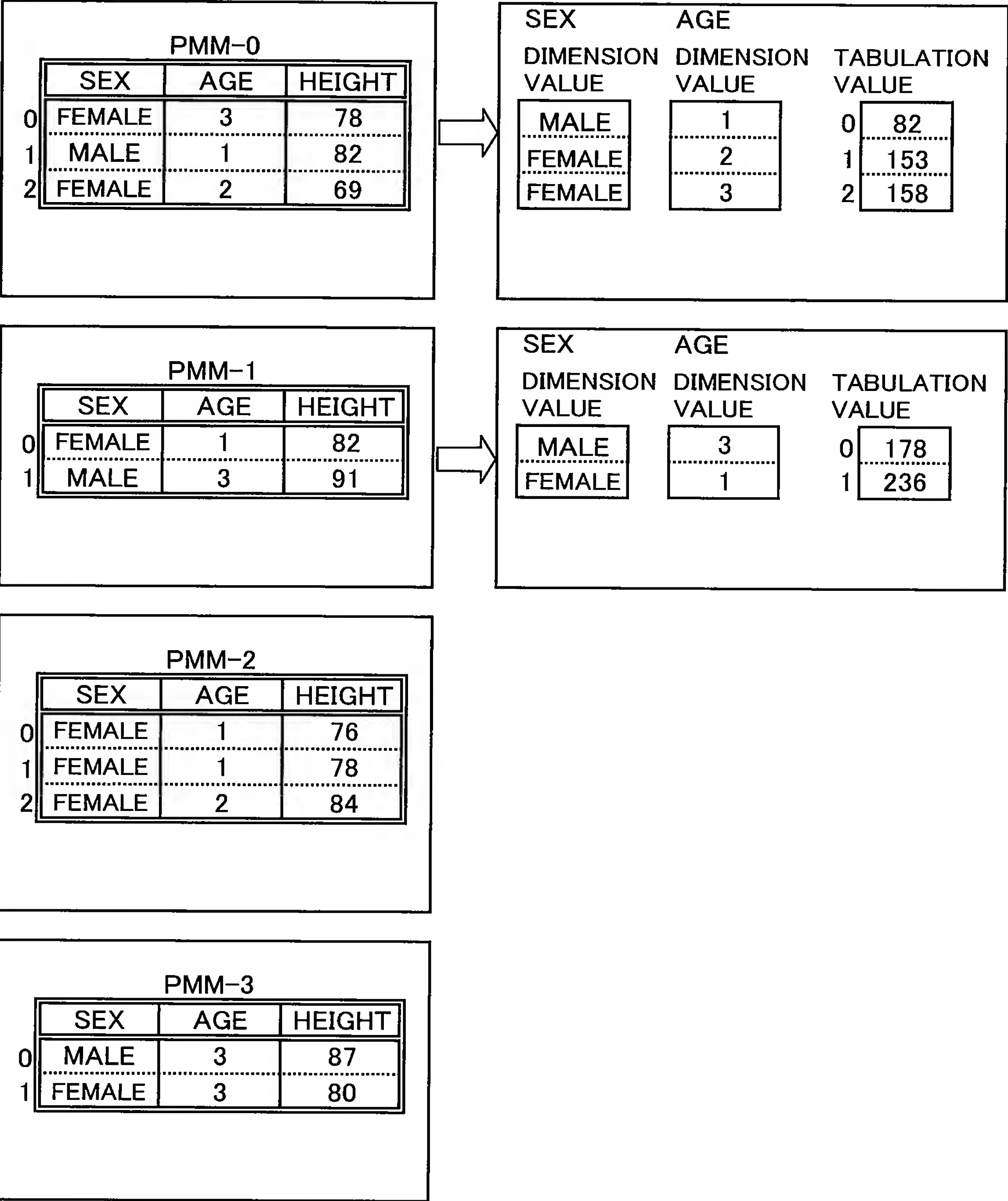


Fig.21

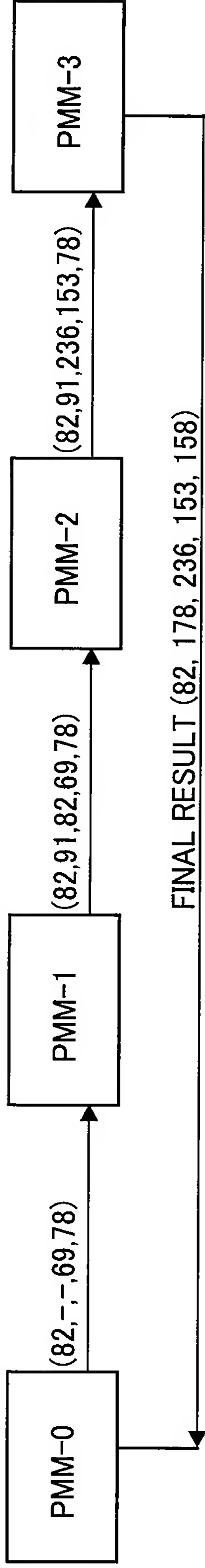


Fig.22

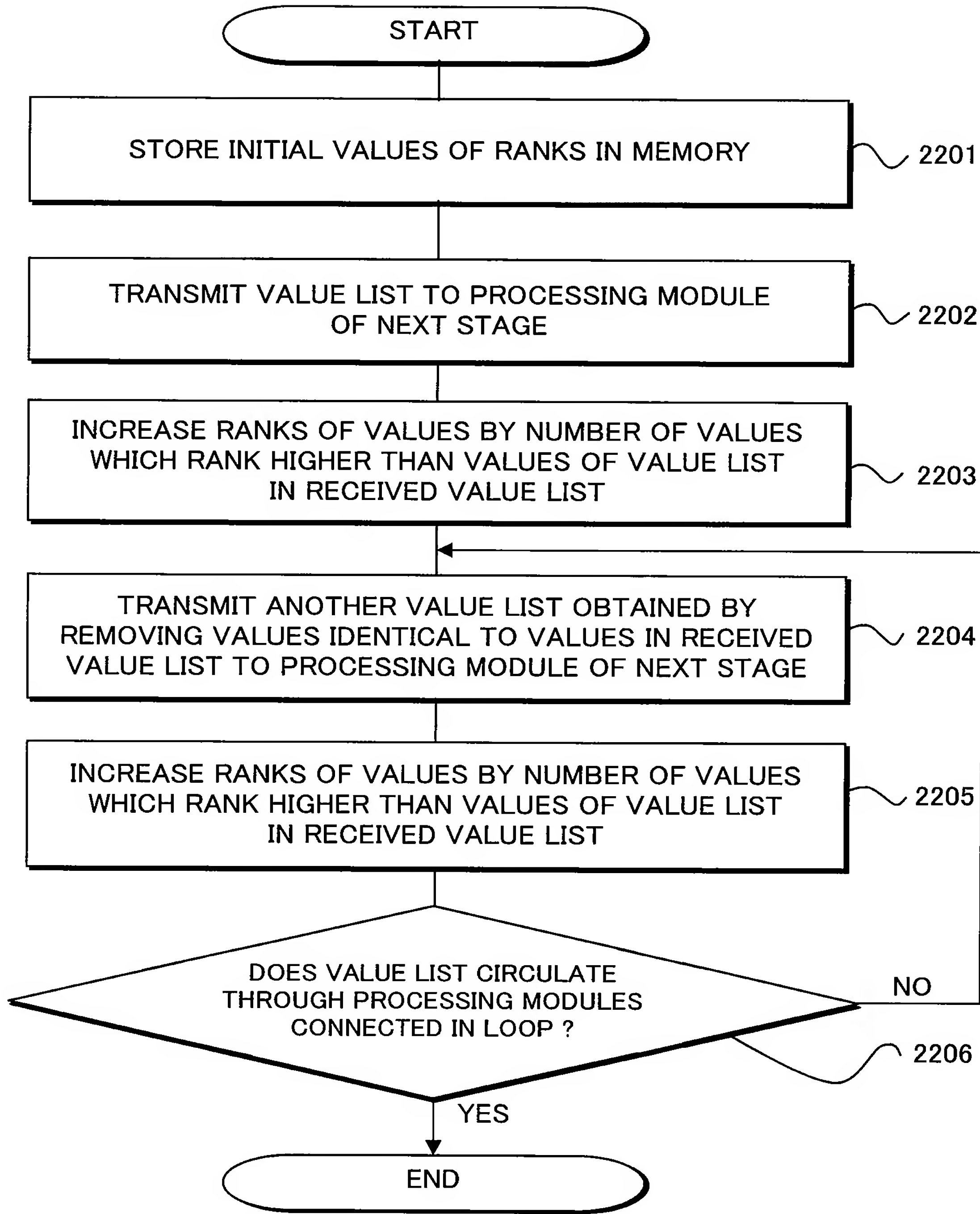


Fig.23A

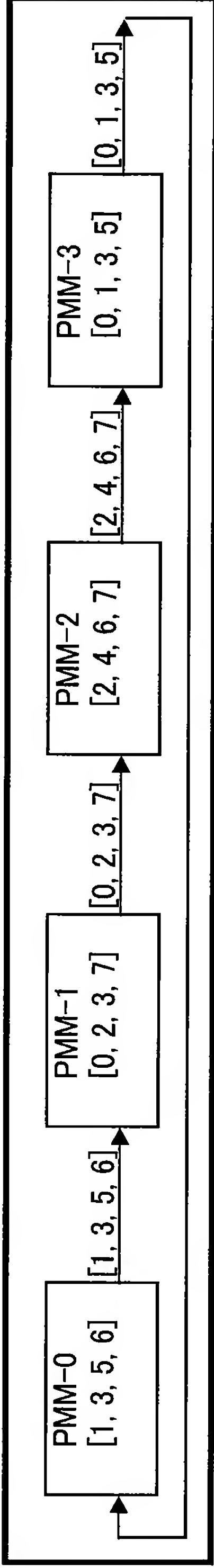


Fig.23B

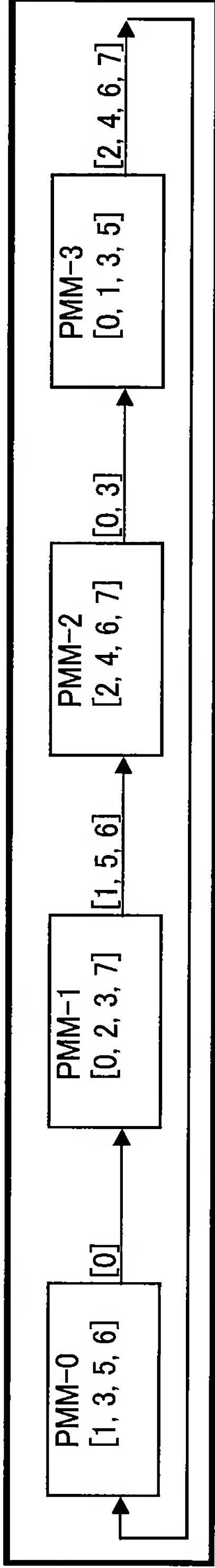


Fig.23C

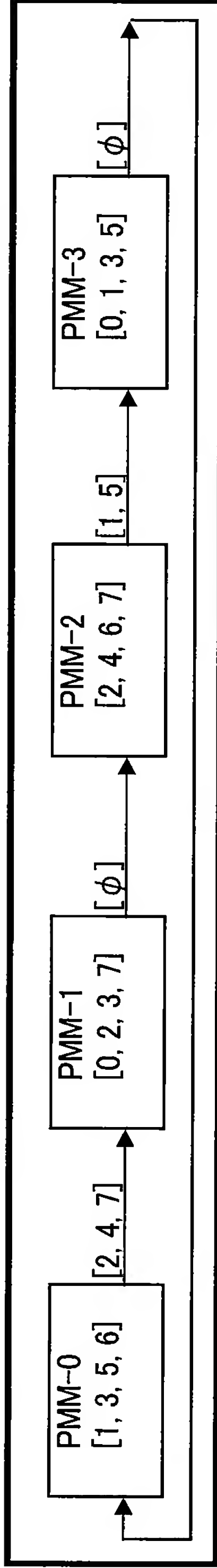


Fig.23D

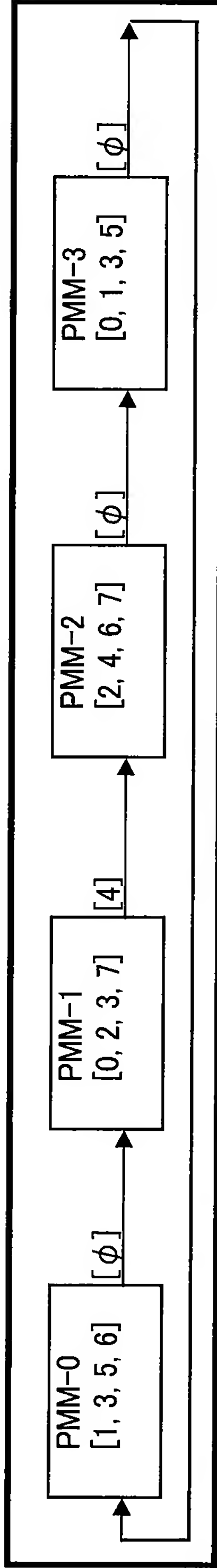


Fig.24A

STEP 1

RECEPTION LIST			
PMM-0 [0, 1, 3, 5]	PMM-1 [1, 3, 5, 6]	PMM-2 [0, 2, 3, 7]	PMM-3 [2, 4, 6, 7]

Fig.24B

STEP 2

RECEPTION LIST			
PMM-0 [0, 1, 3, 5] [2, 4, 6, 7]	PMM-1 [1, 3, 5, 6] [0]	PMM-2 [0, 2, 3, 7] [1, 5, 6]	PMM-3 [2, 4, 6, 7] [0, 3]

Fig.24C

STEP 3

RECEPTION LIST			
PMM-0 [0, 1, 3, 5] [2, 4, 6, 7] [ $\phi$ ]	PMM-1 [1, 3, 5, 6] [0] [2, 4, 7]	PMM-2 [0, 2, 3, 7] [1, 5, 6] [ $\phi$ ]	PMM-3 [2, 4, 6, 7] [0, 3] [1, 5]

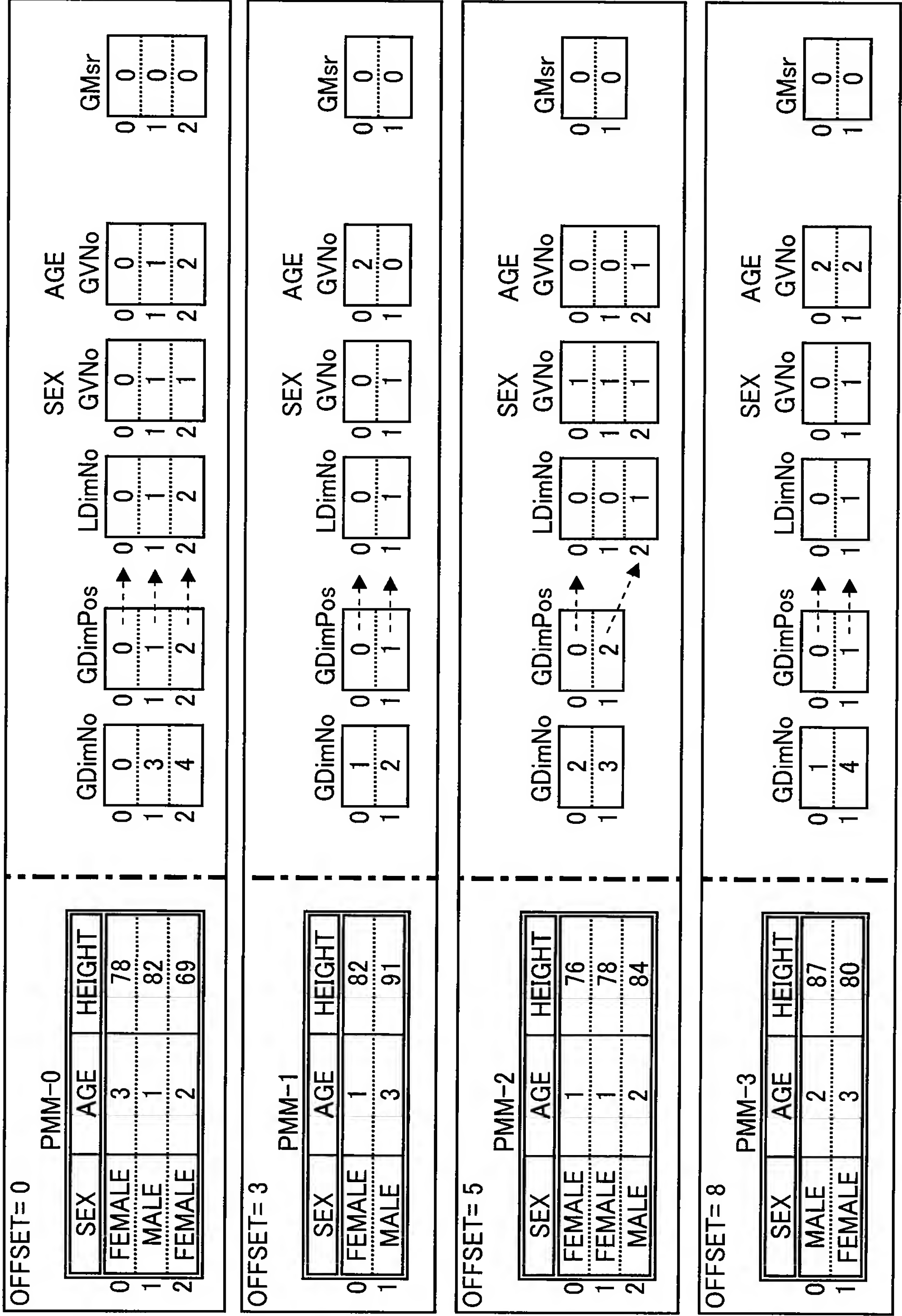
Fig.24D

STEP 4

RECEPTION LIST			
PMM-0 [0, 1, 3, 5] [2, 4, 6, 7] [ $\phi$ ] [ $\phi$ ]	PMM-1 [1, 3, 5, 6] [0] [2, 4, 7] [ $\phi$ ]	PMM-2 [0, 2, 3, 7] [1, 5, 6] [ $\phi$ ] [4]	PMM-3 [2, 4, 6, 7] [0, 3] [1, 5] [ $\phi$ ]



Fig.25



**Fig. 26**

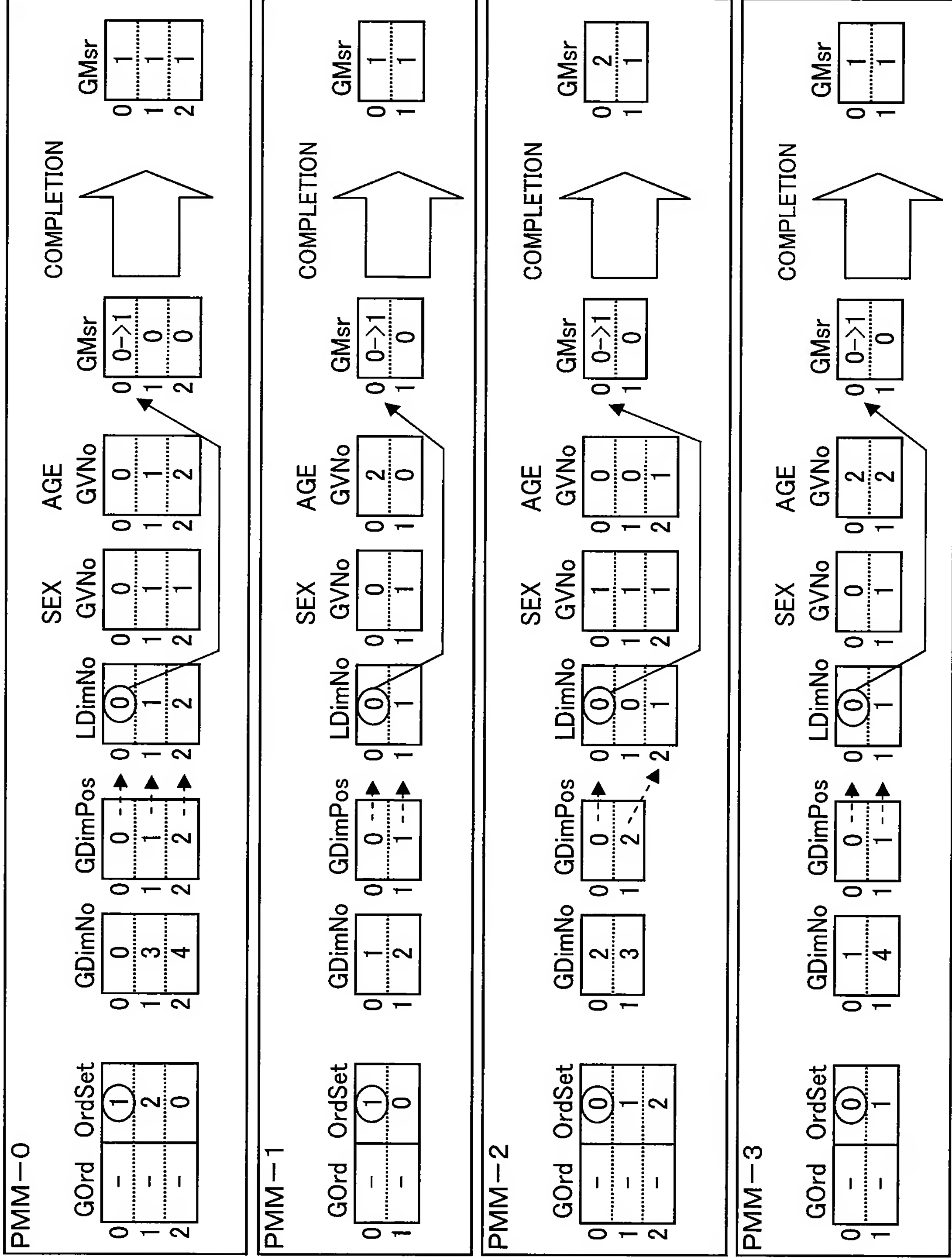
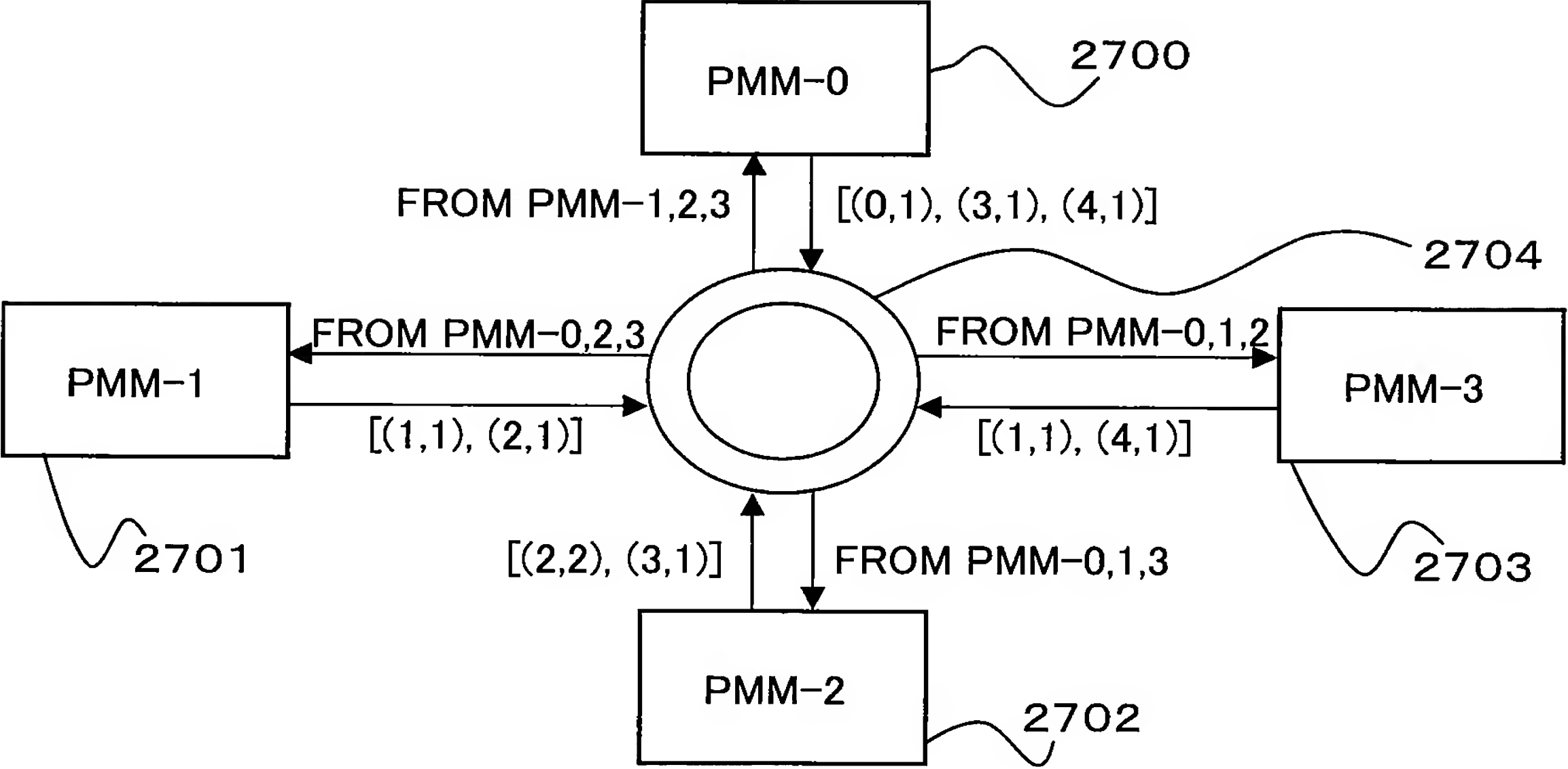


Fig.27



**Fig. 28**

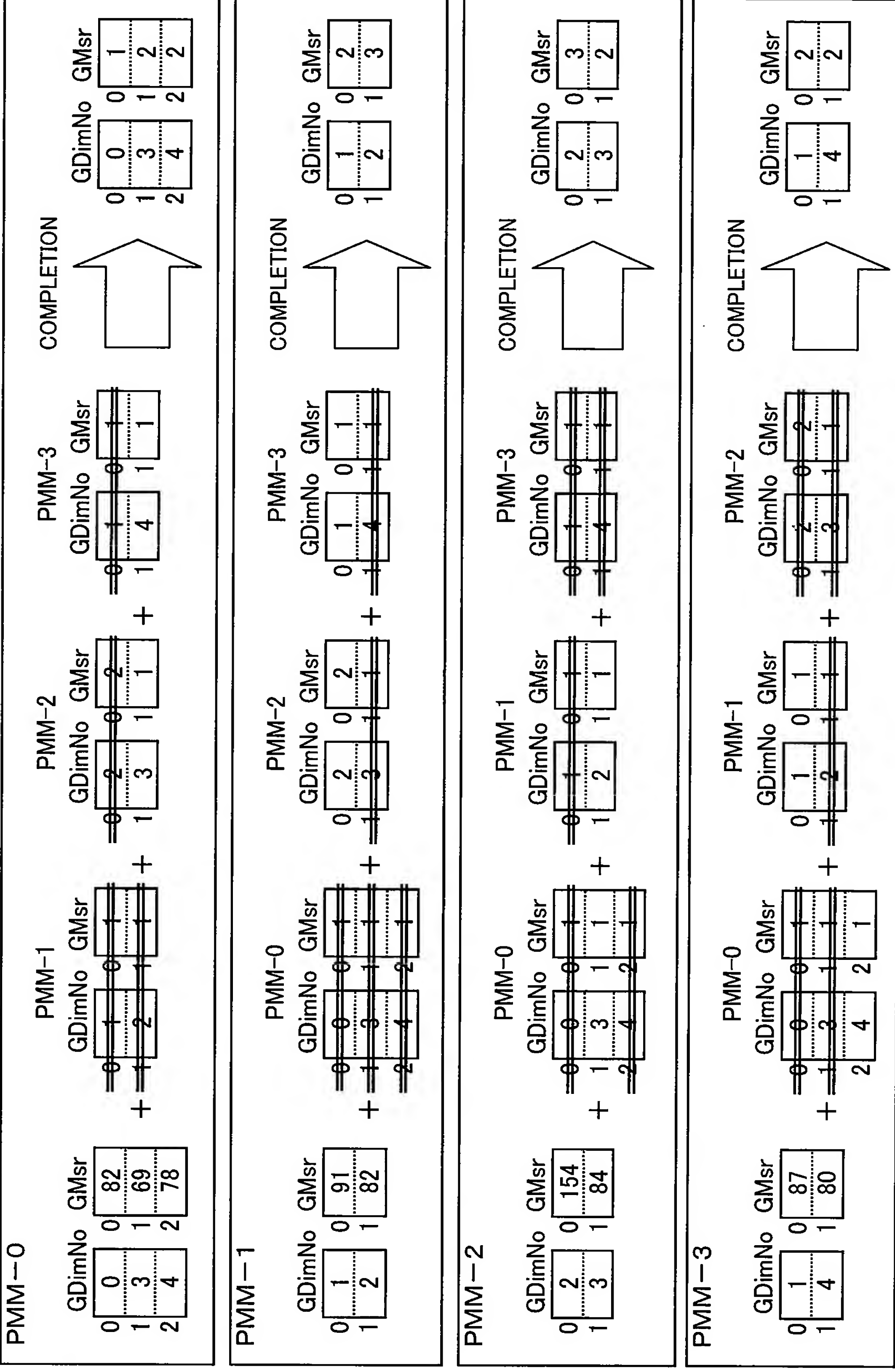


Fig.29

PMM—0

	GDimNo		GMsr
0	0	0	1
1	3	1	2
2	4	2	2

COMPLETION

	GDimNo		GMsr
0	0	0	1
1	3	1	2
2	4	2	2

PMM—1

	GDimNo		GMsr
0	1	0	2
1	2	1	3

COMPLETION

	GDimNo		GMsr
0	1	0	2
1	2	1	3

PMM—2

	GDimNo		GMsr
0	2	0	3
1	3	1	2

COMPLETION

	GDimNo		GMsr
<del>0</del>	<del>2</del>	<del>0</del>	<del>3</del>
<del>1</del>	<del>3</del>	<del>1</del>	<del>2</del>

PMM—3

	GDimNo		GMsr
0	1	0	2
1	4	1	2

COMPLETION

	GDimNo		GMsr
<del>0</del>	<del>1</del>	<del>0</del>	<del>2</del>
<del>1</del>	<del>4</del>	<del>1</del>	<del>2</del>

Fig.30

PMM-0		
GDImNo	GMsr	
0	0	1
1	3	1
2	4	2

GDImPos			SEX			AGE		
0	1	2	0	1	2	0	1	2
0	0	0	0	0	0	0	1	0
1	1	1	1	1	1	1	2	1
2	2	2	2	2	2	2	3	2

SEX			AGE		
VNo	VL	GVNo	VNo	VL	GVNo
0	MALE	0	0	1	0
1	FEMALE	1	1	2	1
2			2	3	2

SEX			AGE		
VNo	VL	GVNo	VNo	VL	GVNo
0	MALE	0	0	1	0
1	FEMALE	1	1	2	1
2			2	3	2

PMM-1		
GDImNo	GMsr	
0	1	0
1	2	1

GDImPos			SEX			AGE		
0	1		0	1		0	1	
0	0	0	0	0	0	0	1	0
1	1	1	1	1	1	1	3	1

SEX			AGE		
VNo	VL	GVNo	VNo	VL	GVNo
0	MALE	0	0	1	0
1	FEMALE	1	1	3	1

SEX			AGE		
VNo	VL	GVNo	VNo	VL	GVNo
0	MALE	0	0	1	0
1	FEMALE	1	1	3	1

Fig.31

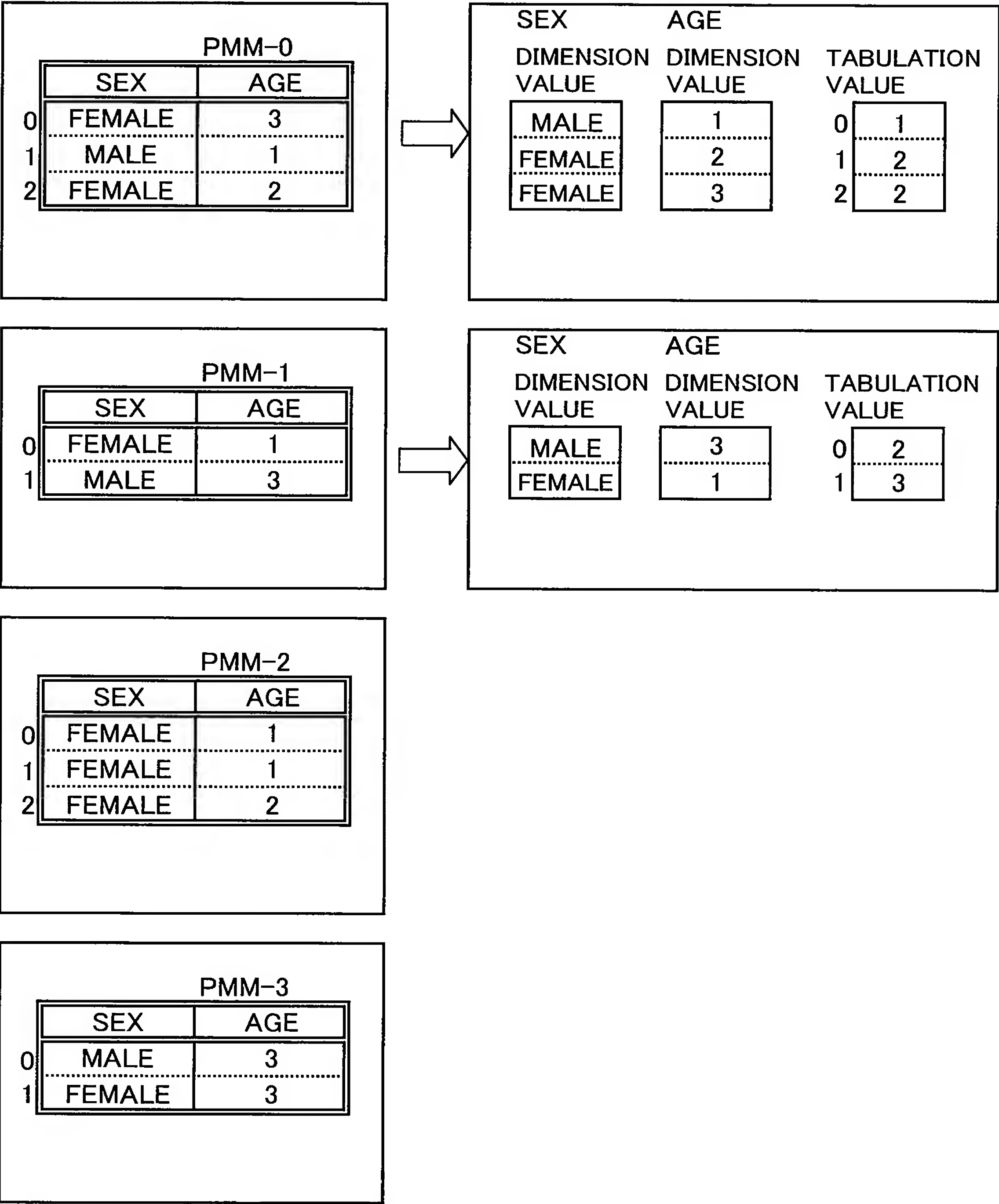


Fig.32

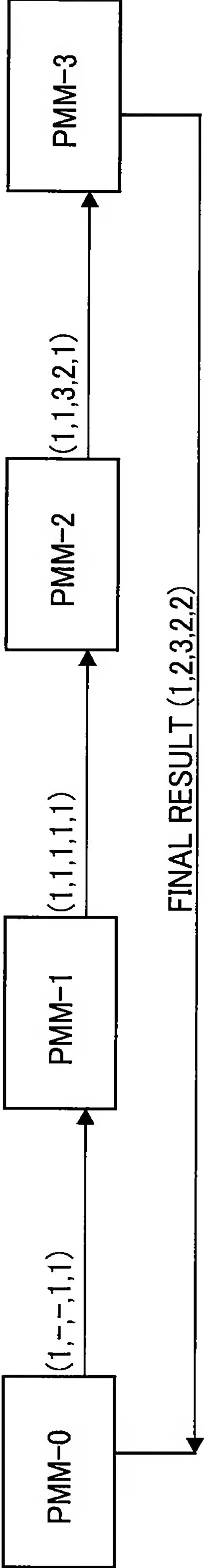




Fig.33

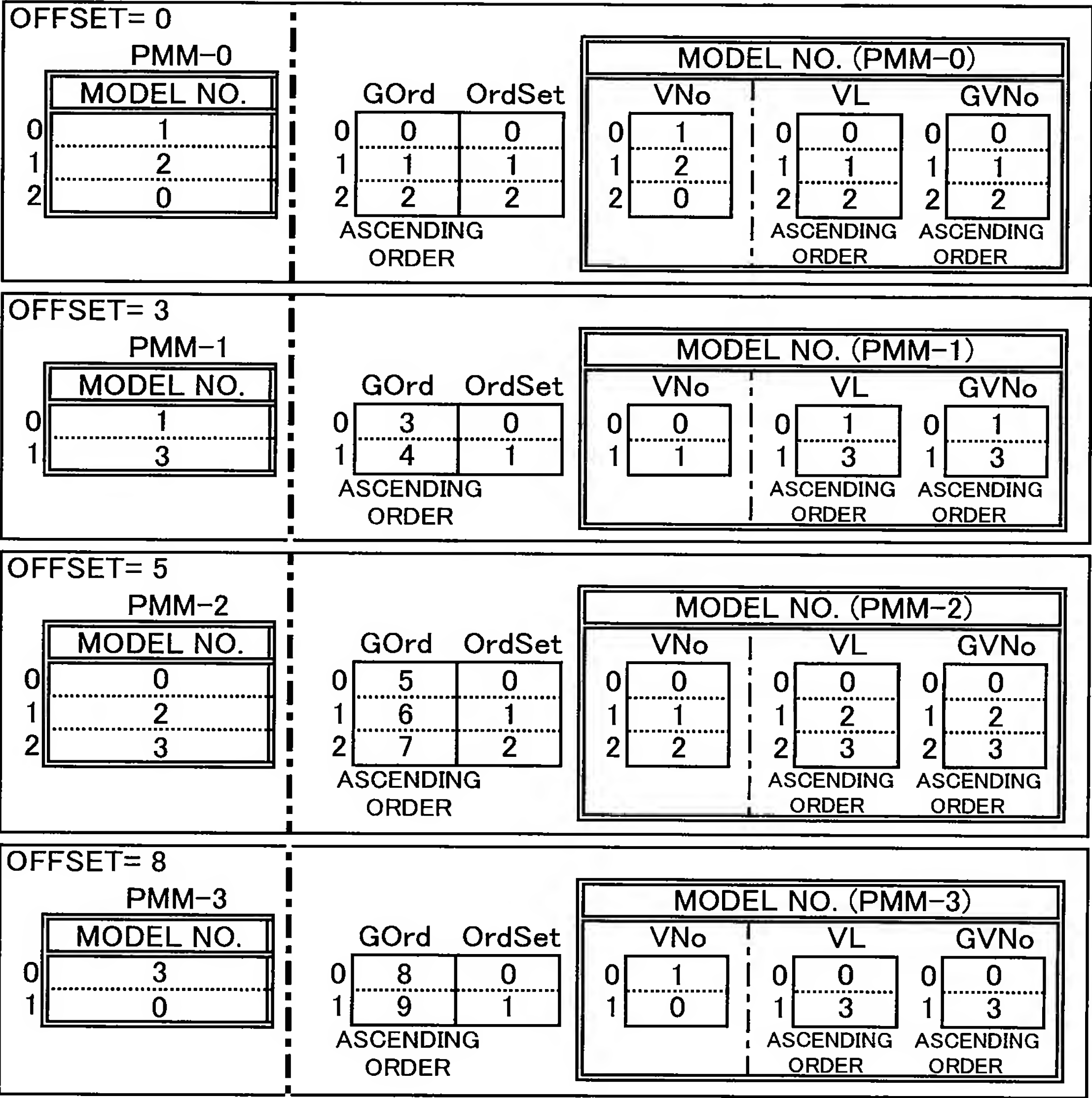


Fig.34

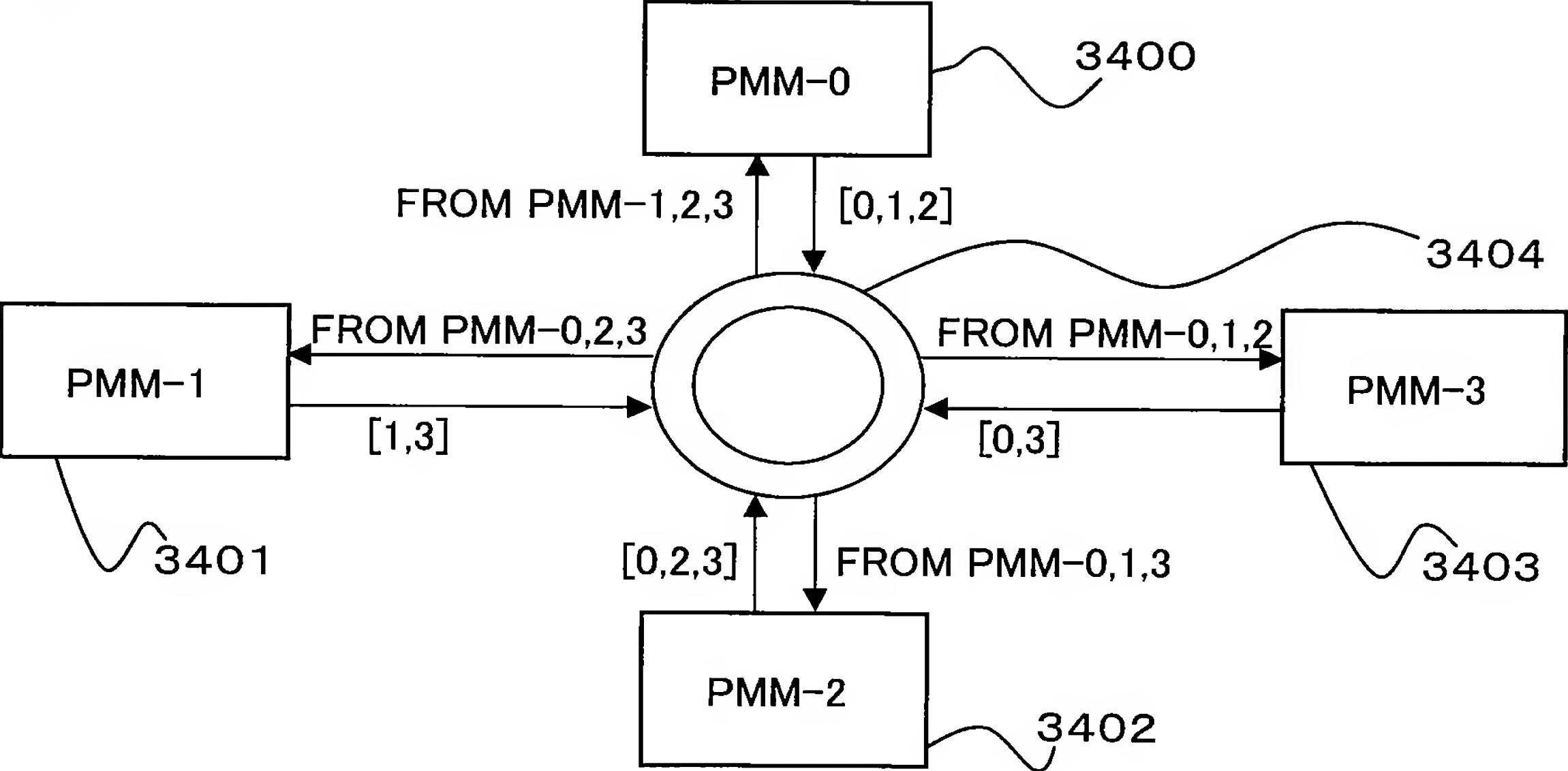


Fig.35

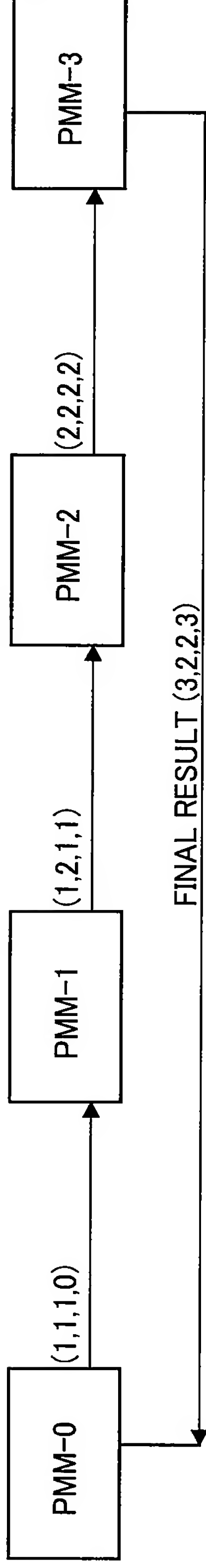


Fig.36

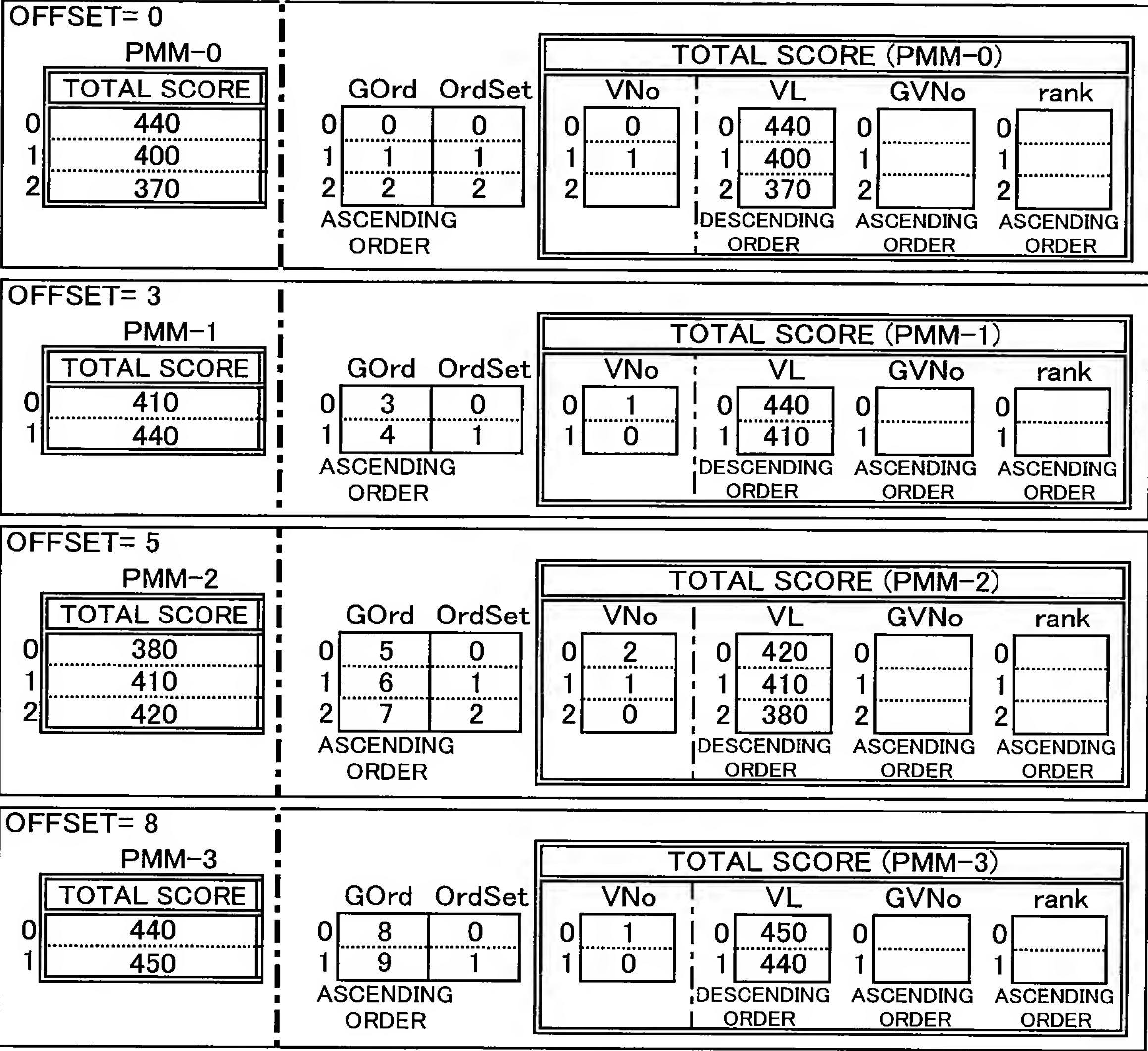


Fig.37A

OFFSET= 0									
PMM-0									
TOTAL SCORE		GOrd		OrdSet		TOTAL SCORE (PMM-0)			
0	440	0	0	0	0	VNo	VL	GVNo	rank
1	400	1	1	1	1	0	440	0	0
2	370	2	2	2	2	1	400	1	1
		ASCENDING				2	370	2	2
		ORDER				DESCENDING		ASCENDING	ASCENDING
						ORDER		ORDER	ORDER

Fig.37B

RECEIVE 410 AND 440 FROM PMM-1

OFFSET= 0									
PMM-0									
TOTAL SCORE		GOrd		OrdSet		TOTAL SCORE (PMM-0)			
0	440	0	0	0	0	VNo	VL	GVNo	rank
1	400	1	1	1	1	0	440	0	0
2	370	2	2	2	2	1	400	1	1→3
		ASCENDING				2	370	2	2→4
		ORDER				DESCENDING		ASCENDING	ASCENDING
						ORDER		ORDER	ORDER

Fig.37C

RECEIVE 380, 410 AND 420 FROM PMM-2

OFFSET= 0									
PMM-0									
TOTAL SCORE		GOrd		OrdSet		TOTAL SCORE (PMM-0)			
0	440	0	0	0	0	VNo	VL	GVNo	rank
1	400	1	1	1	1	0	440	0	0
2	370	2	2	2	2	1	400	1	2→3
		ASCENDING				2	370	2	3→5
		ORDER				DESCENDING		ASCENDING	ASCENDING
						ORDER		ORDER	ORDER

Fig.37D

RECEIVE 440 AND 450 FROM PMM-3

OFFSET= 0									
PMM-0									
TOTAL SCORE		GOrd		OrdSet		TOTAL SCORE (PMM-0)			
0	440	0	0	0	0	VNo	VL	GVNo	rank
1	400	1	1	1	1	0	440	0	0→1
2	370	2	2	2	2	1	400	1	3→4
		ASCENDING				2	370	2	5→6
		ORDER				DESCENDING		ASCENDING	ASCENDING
						ORDER		ORDER	ORDER

Fig.38

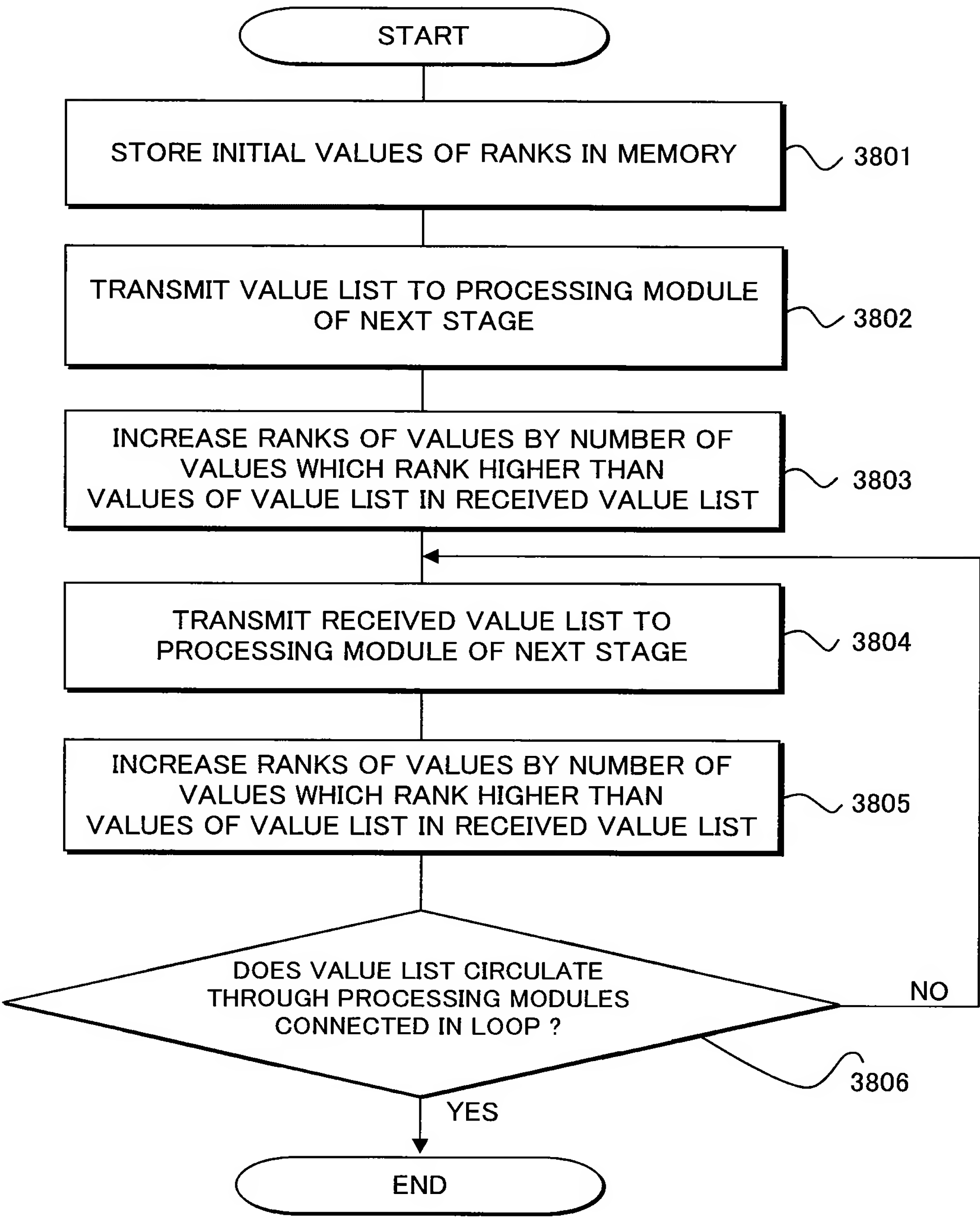


Fig.39A

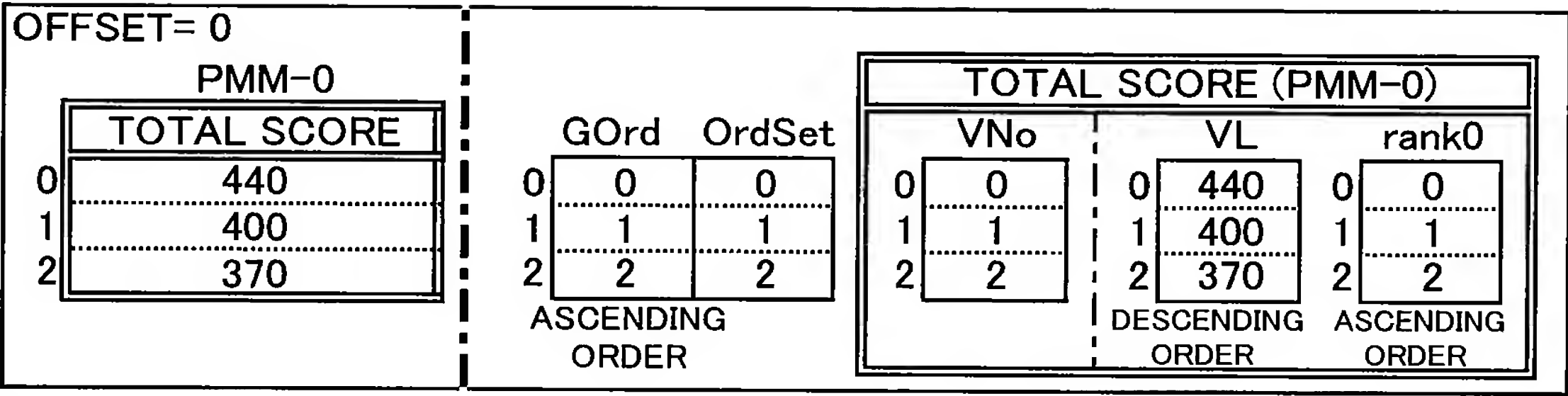


Fig.39B

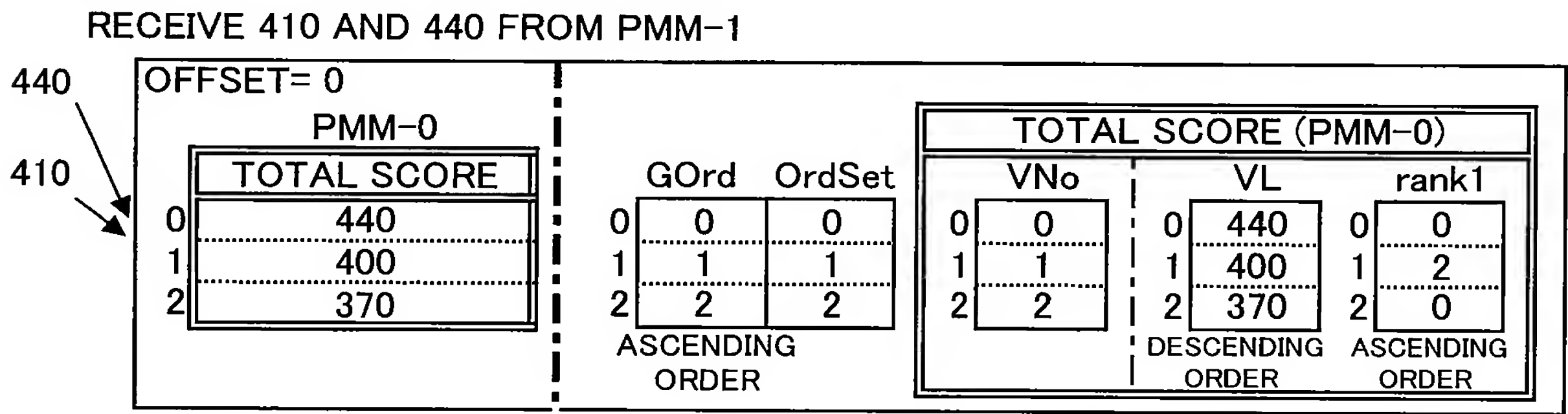


Fig.39C

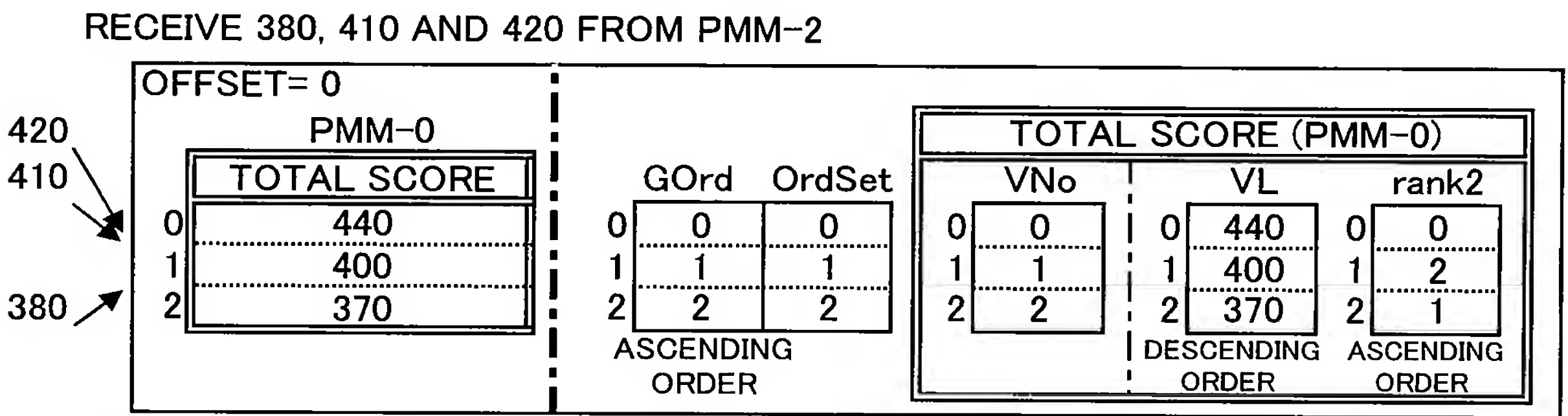


Fig.39D

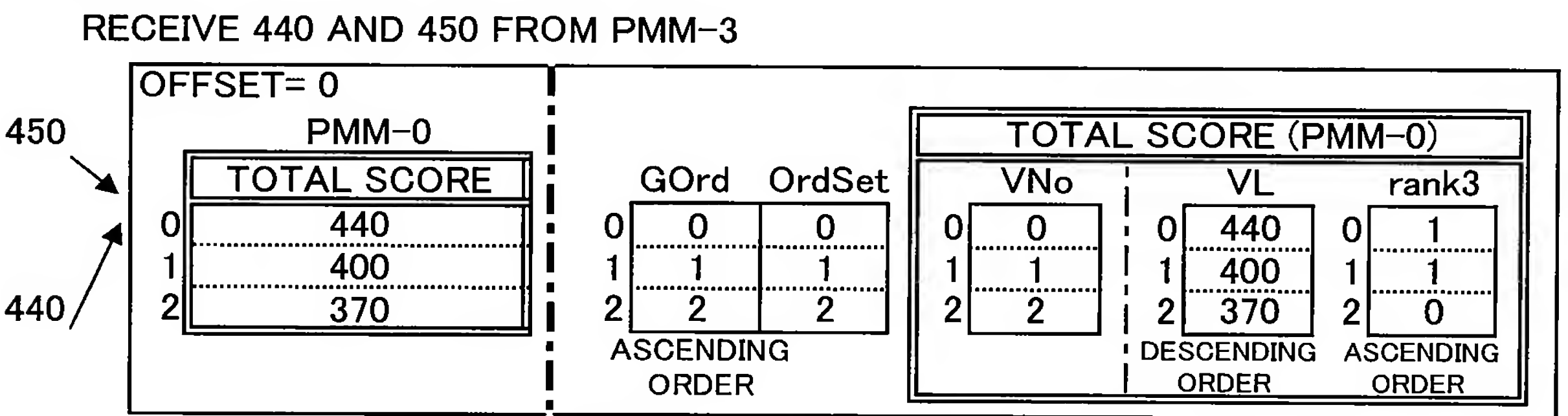


Fig.39E

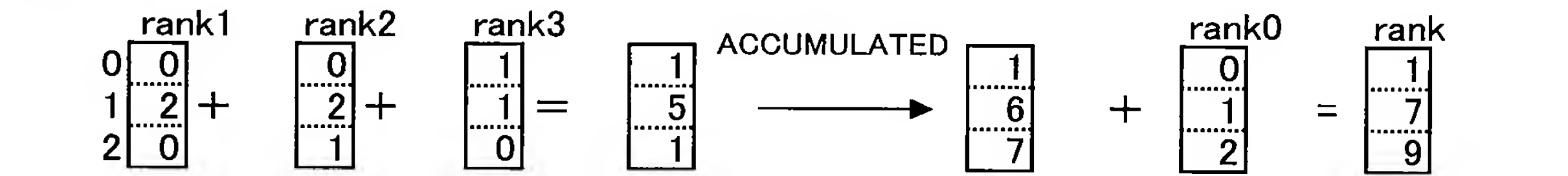


Fig.40

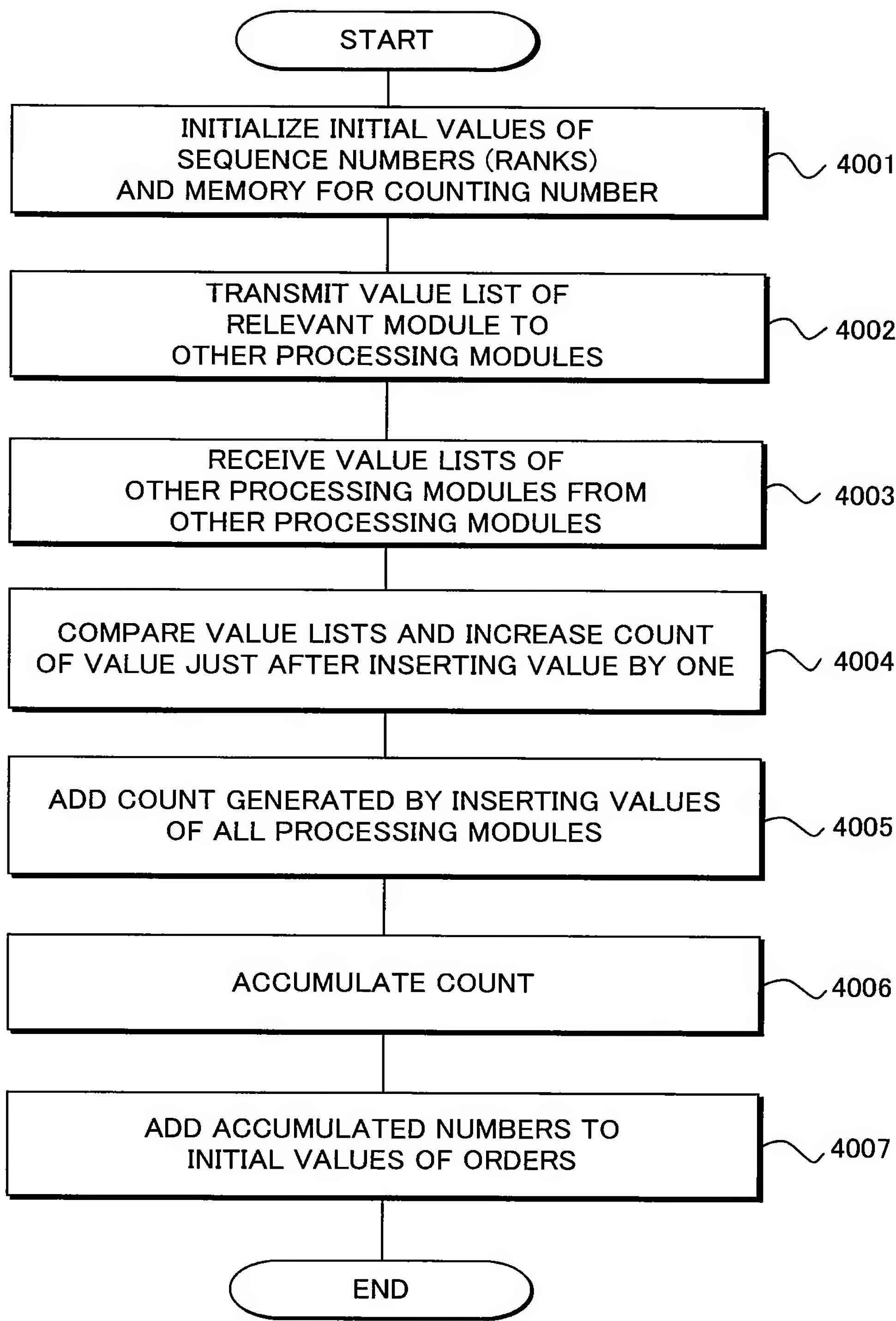




Fig.41A

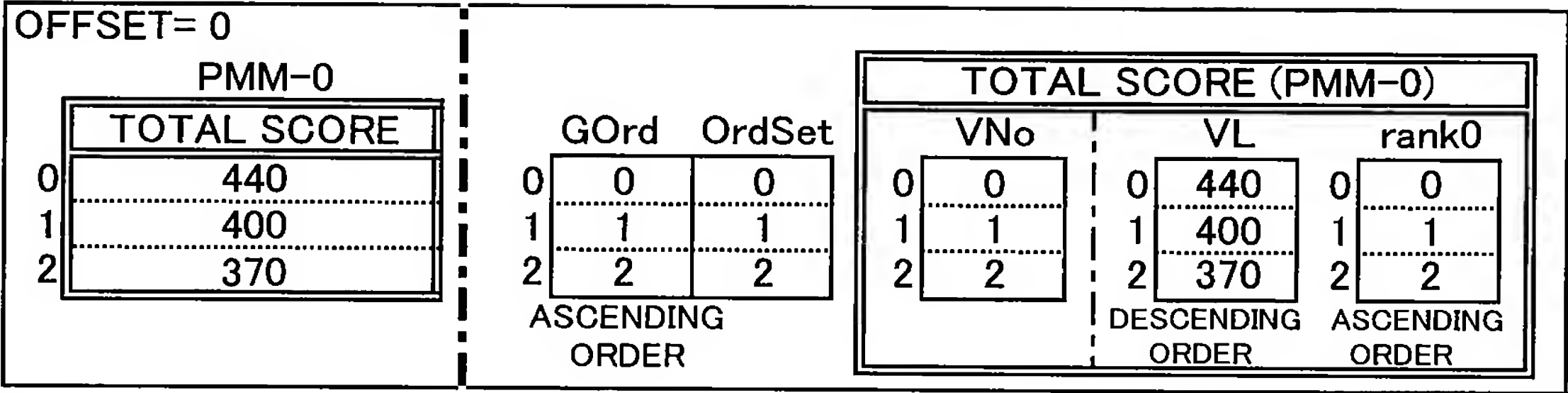


Fig.41B

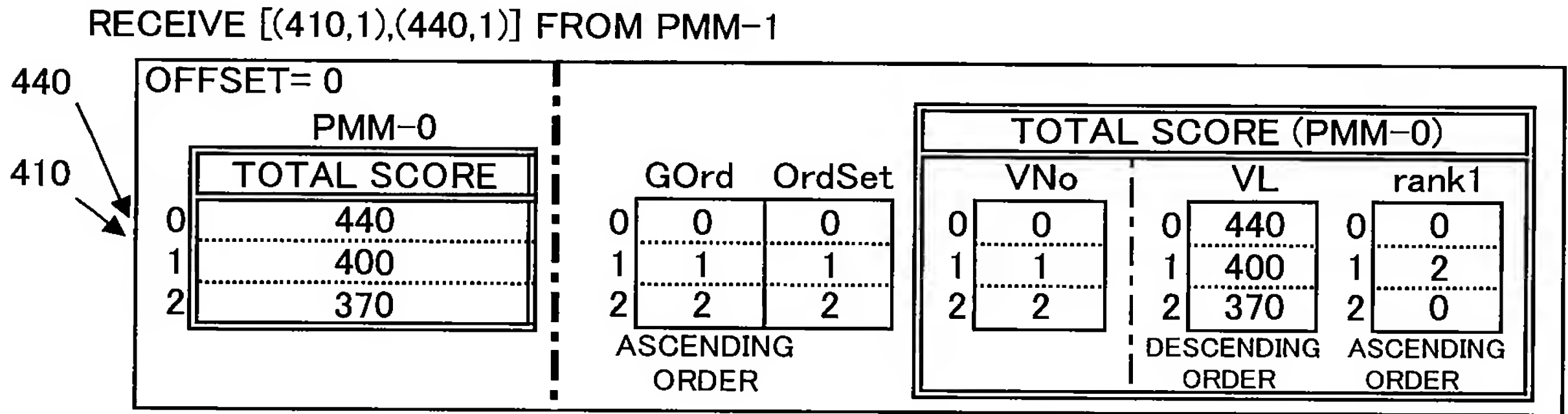


Fig.41C

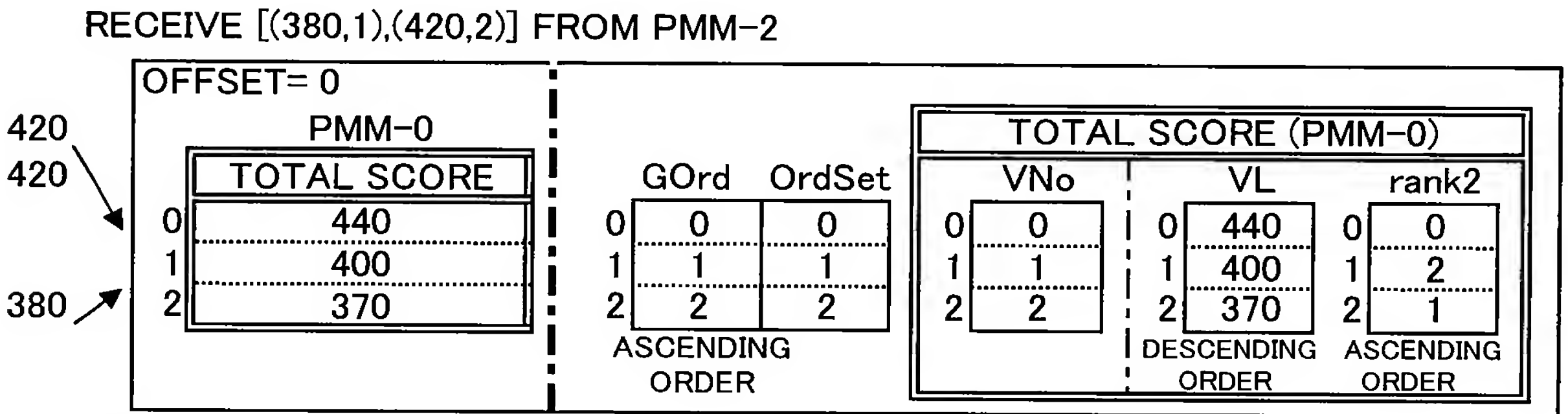


Fig.41D

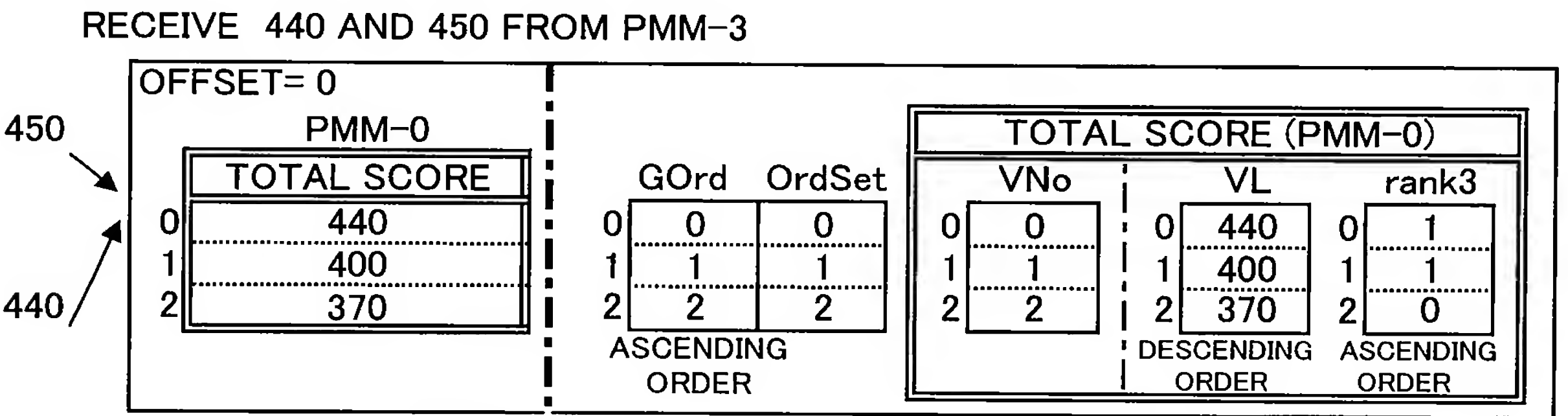


Fig.41E

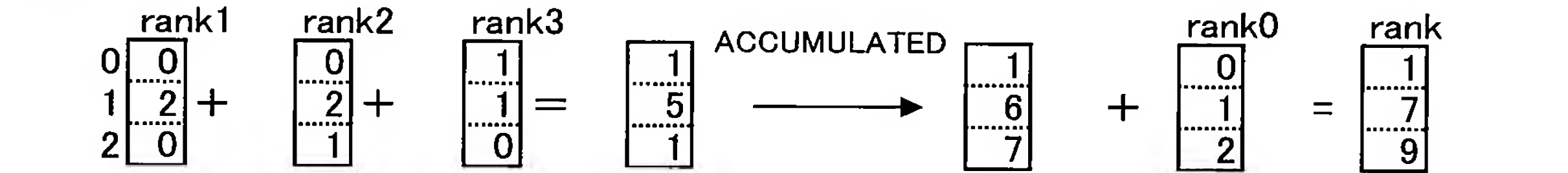


Fig.42

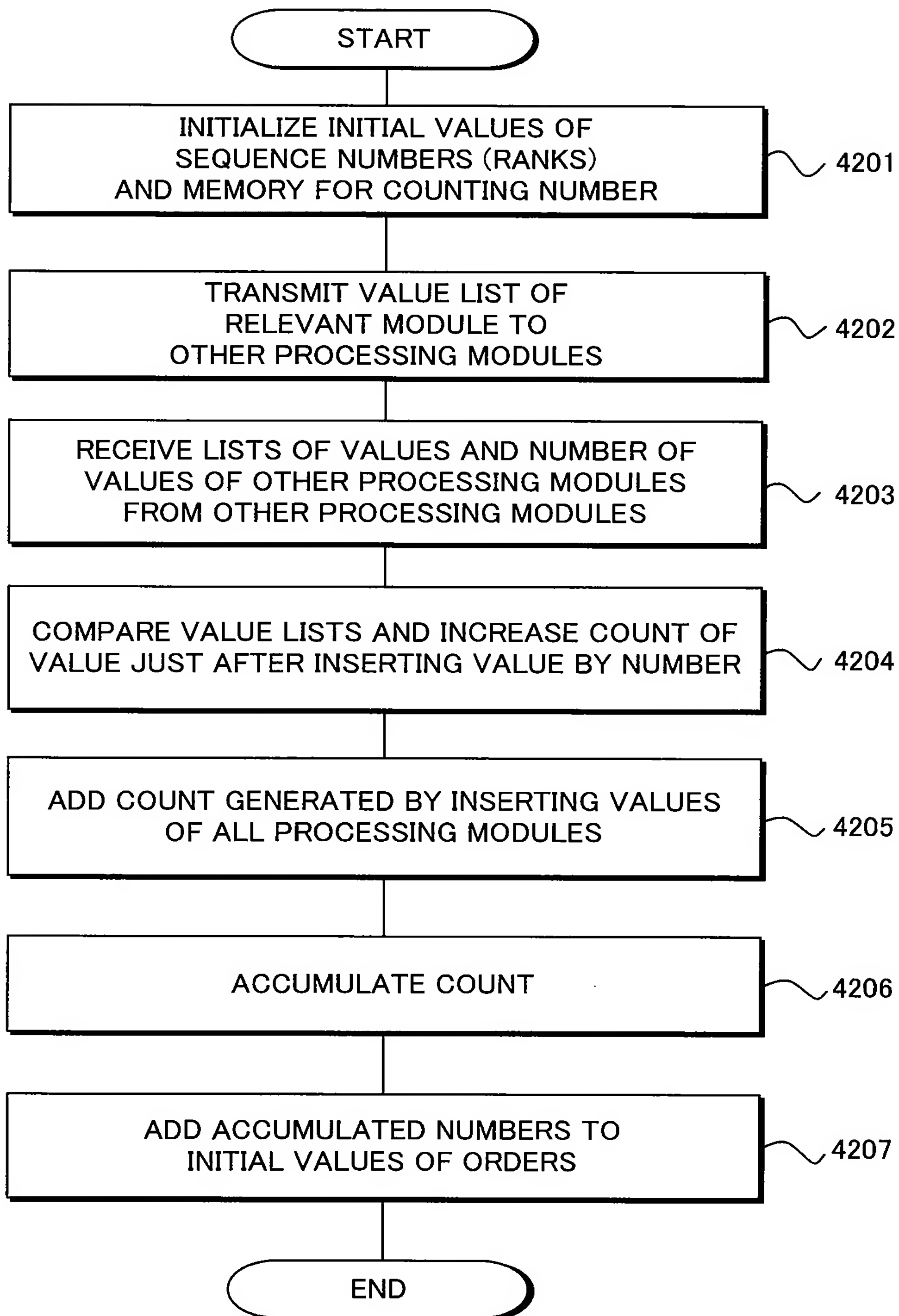


Fig.43

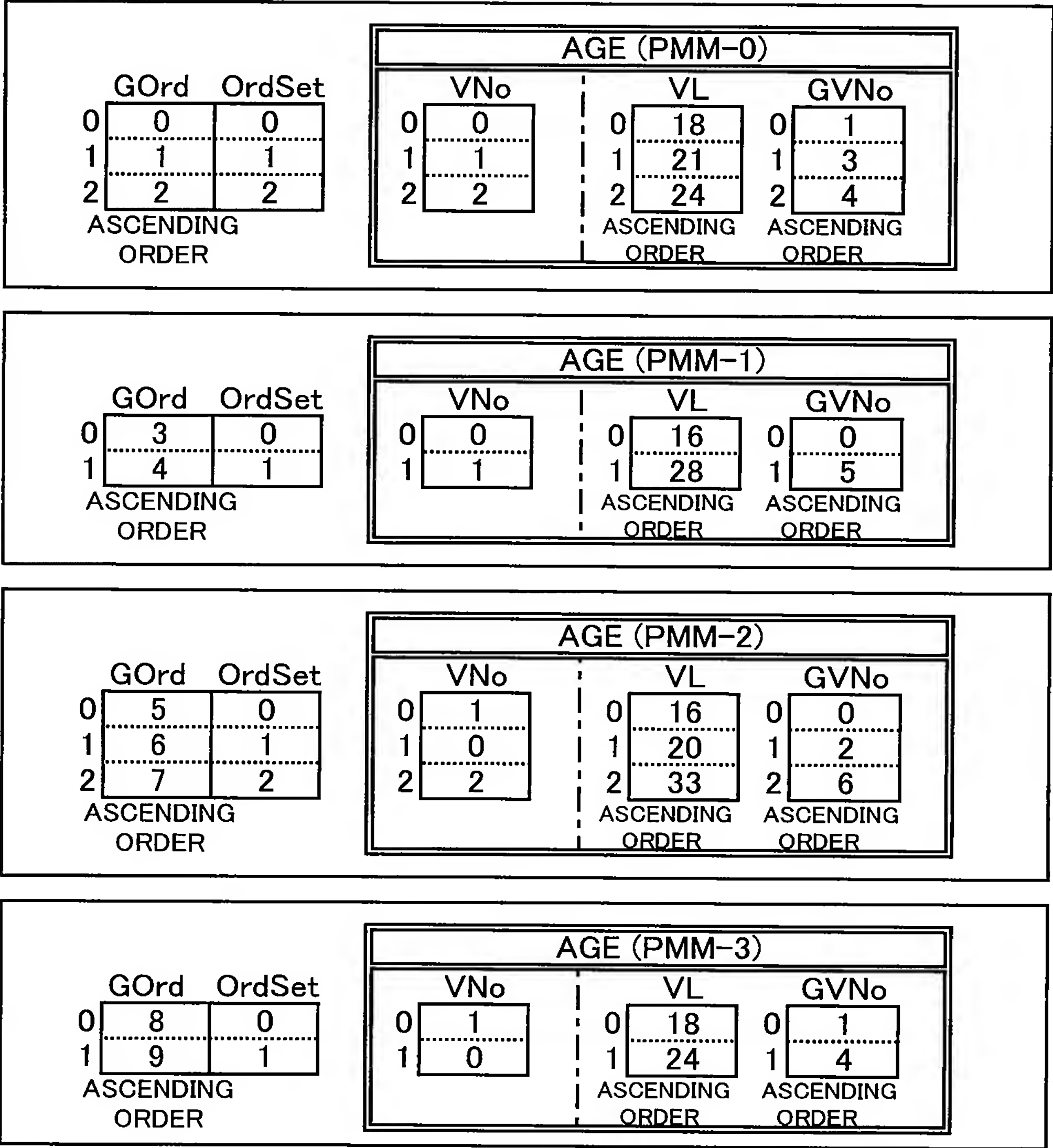


Fig.44

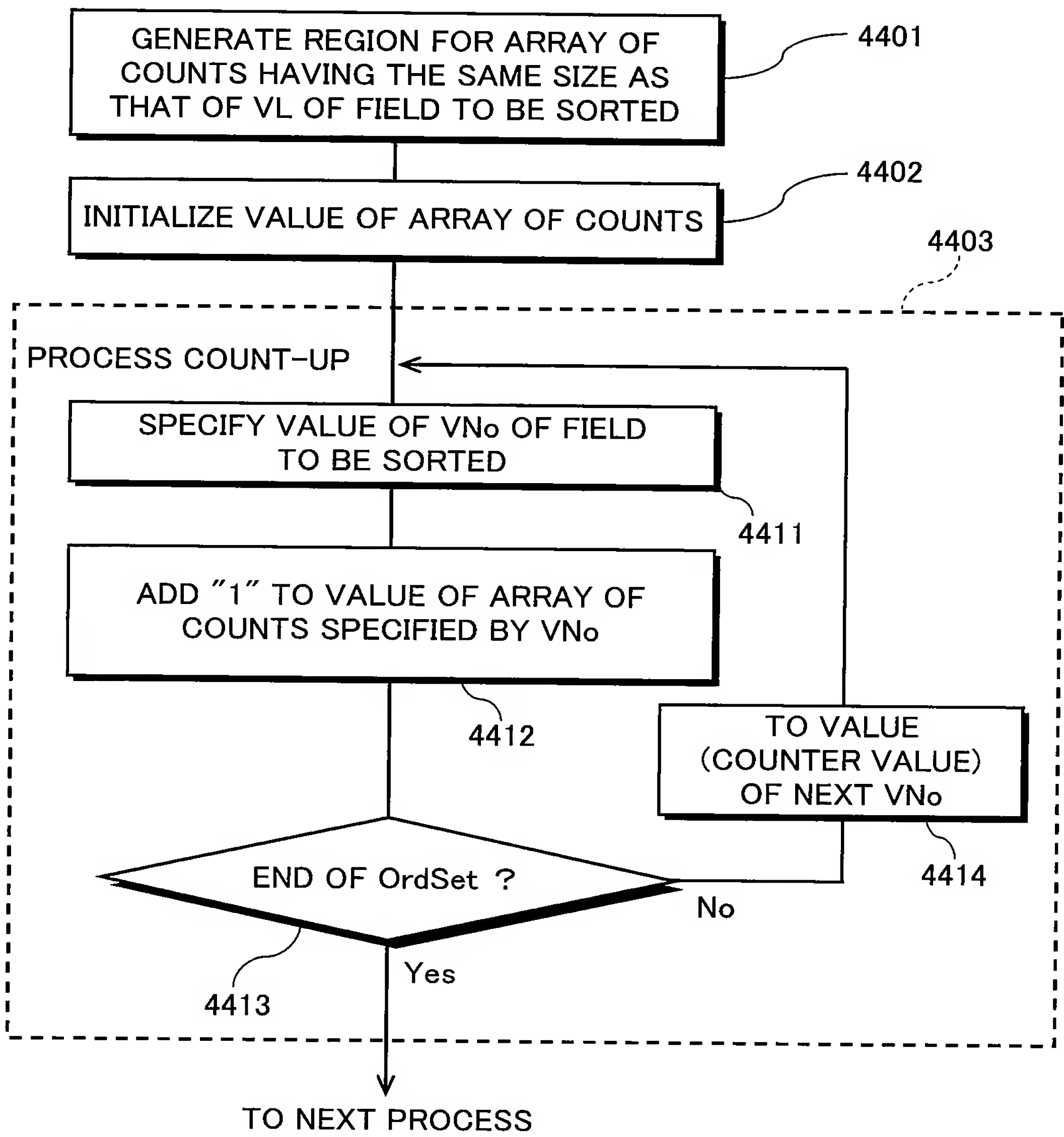


Fig.45

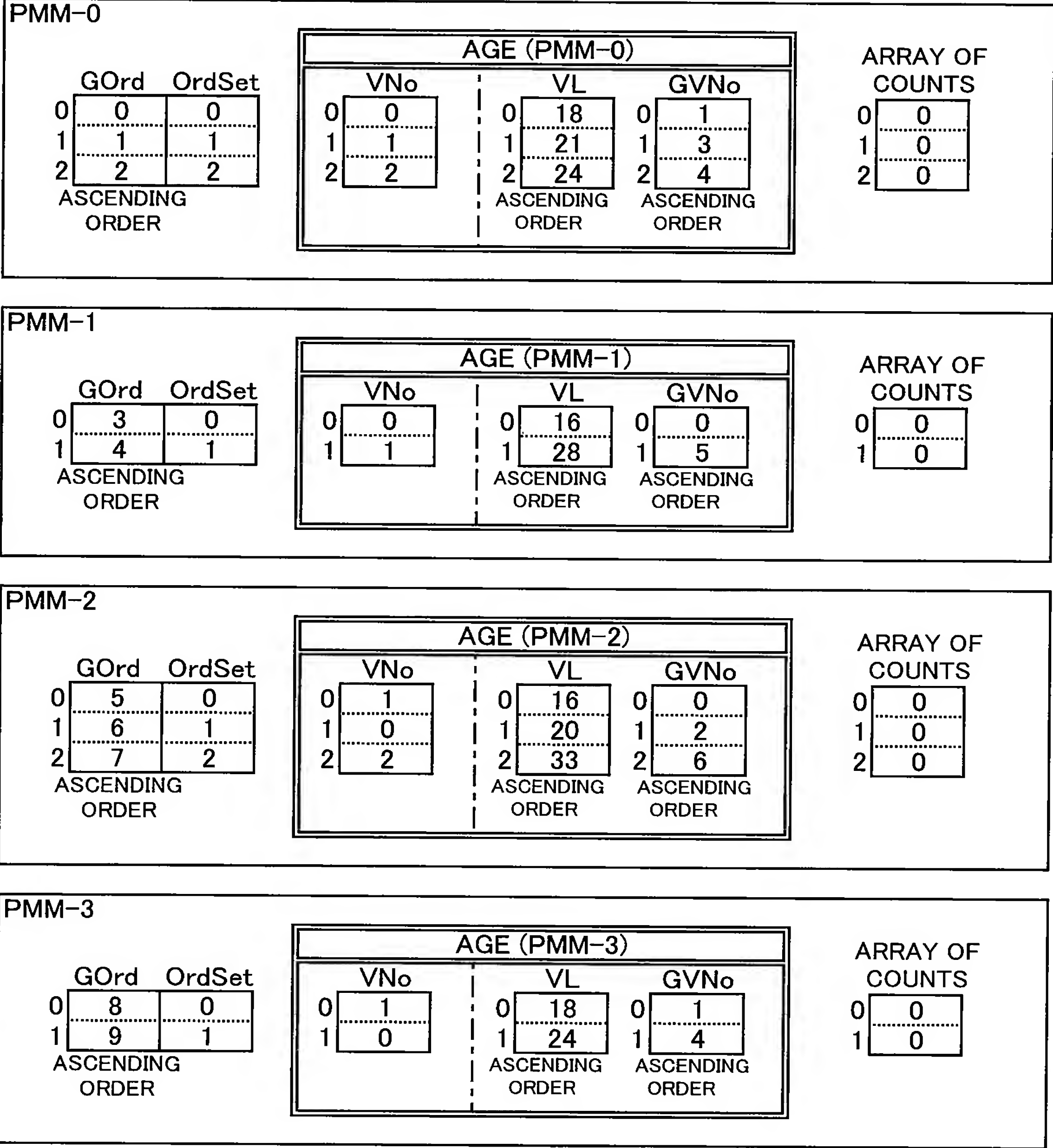


Fig.46

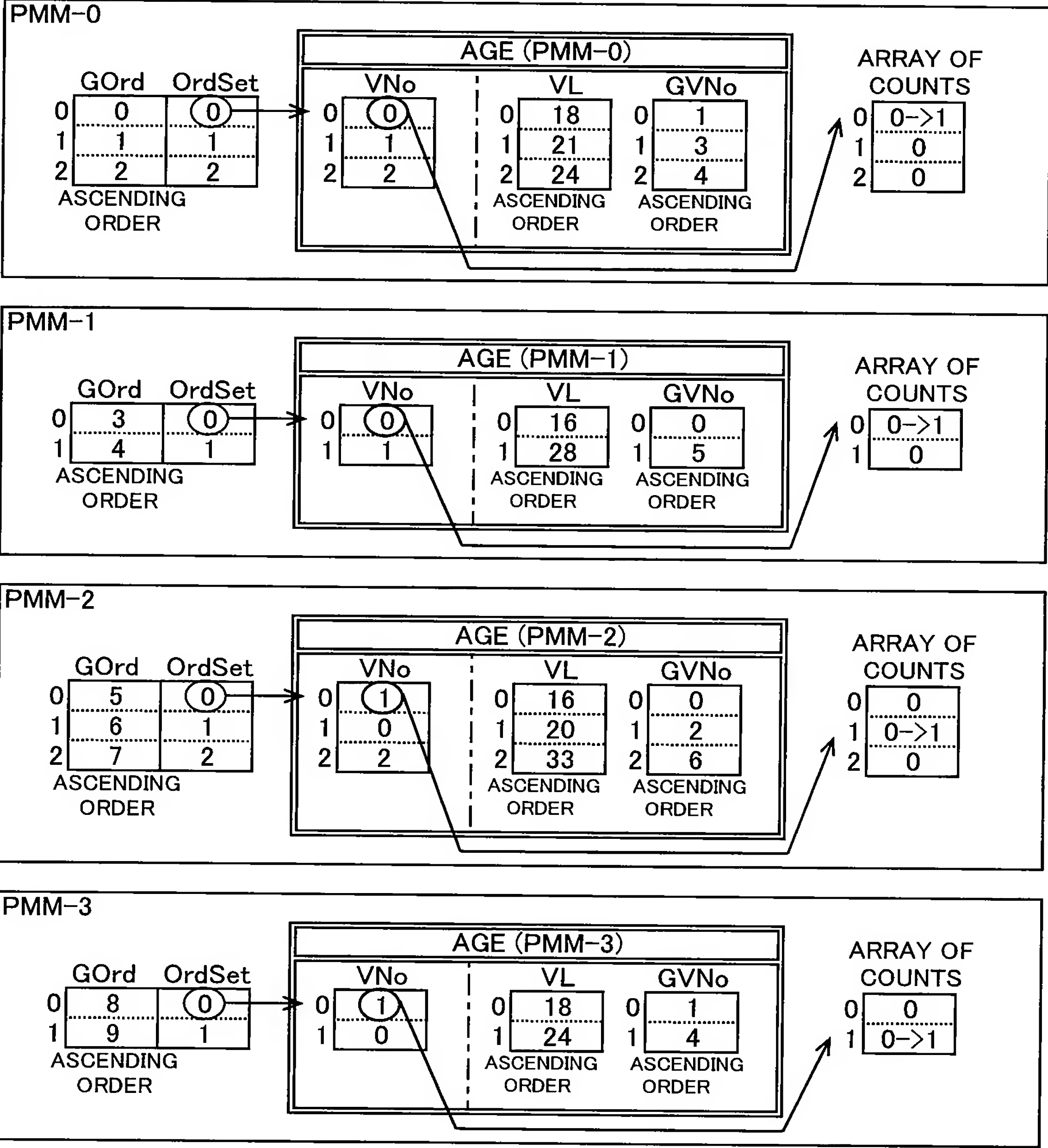


Fig.47

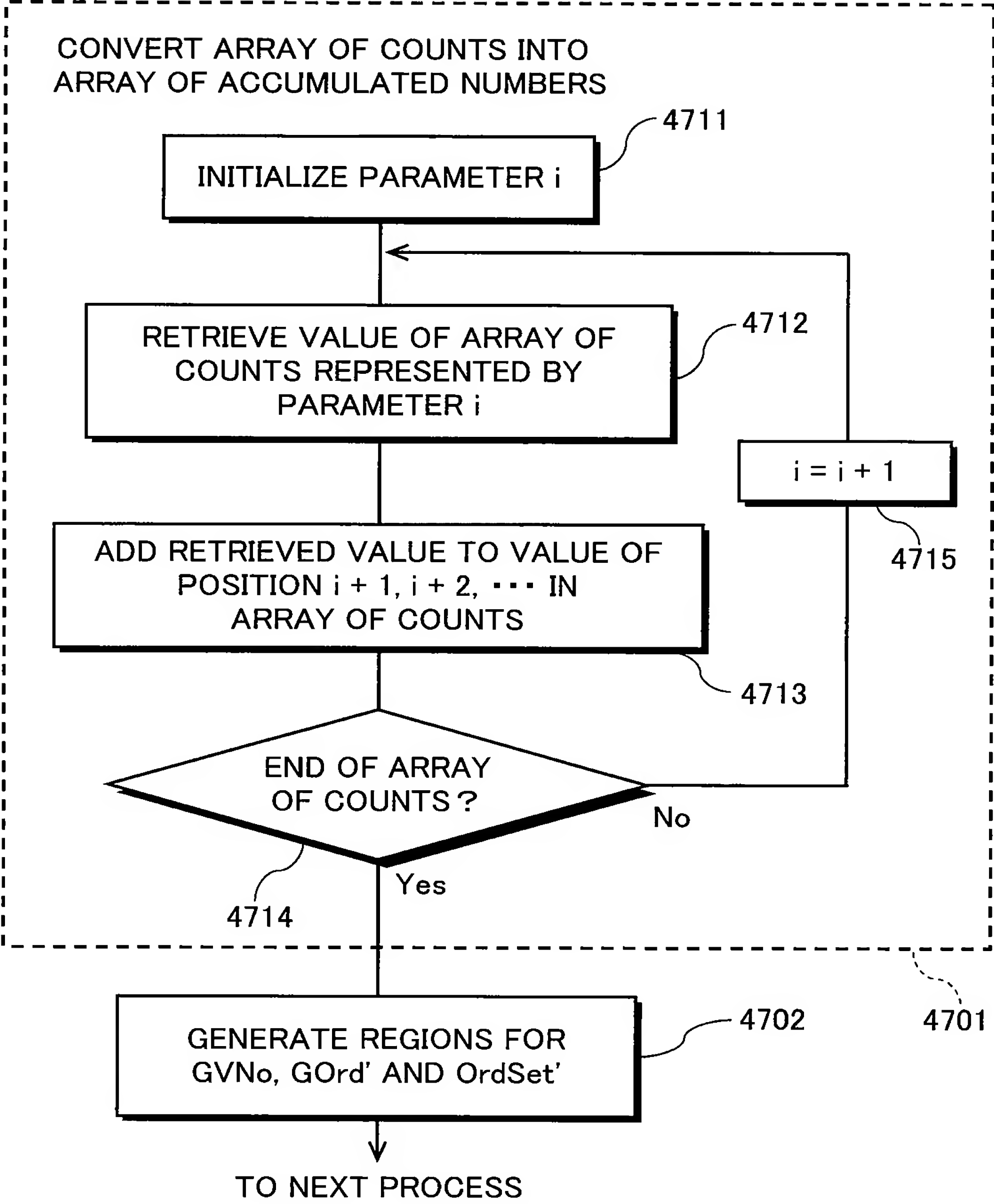


Fig.48

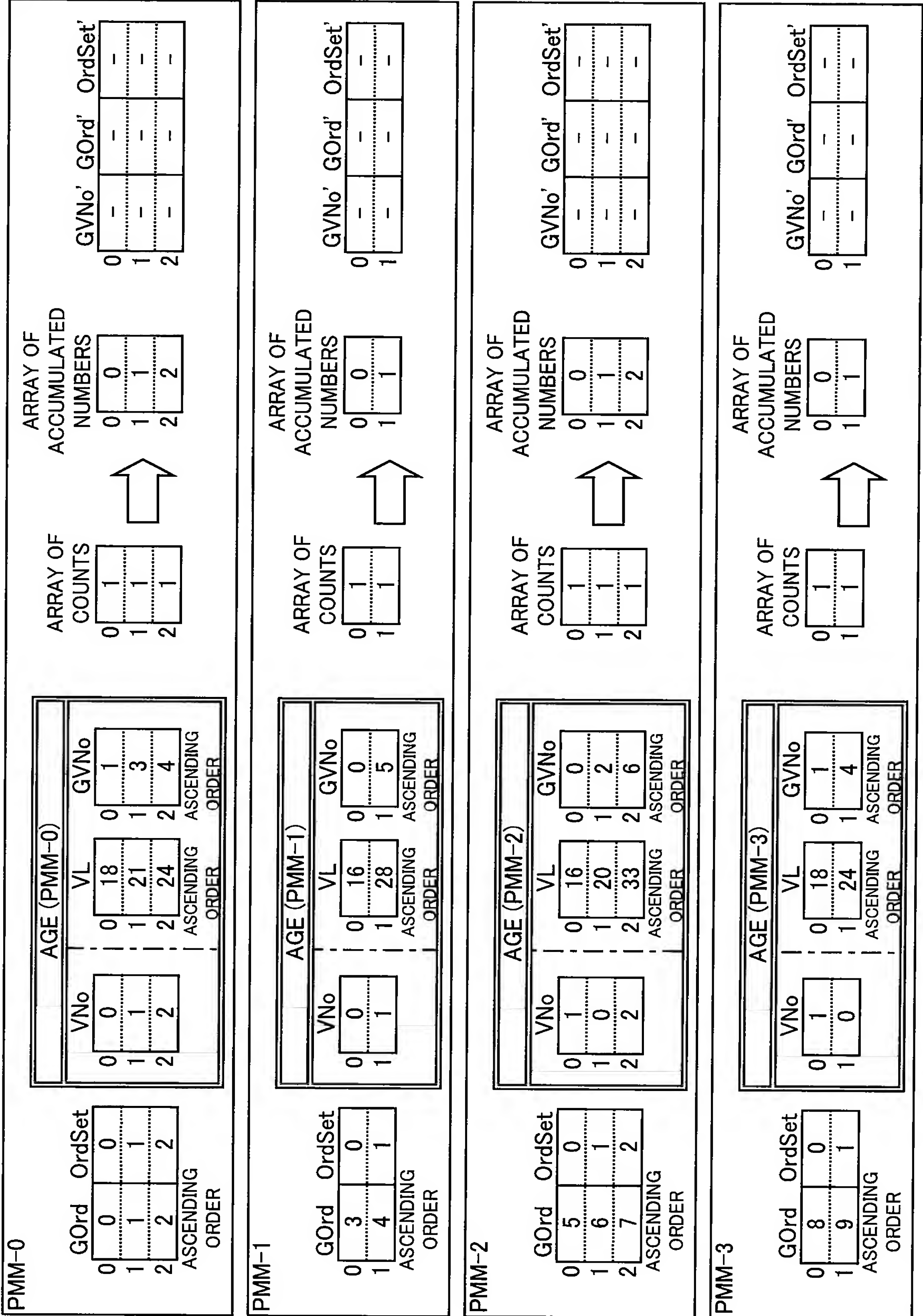




Fig.49

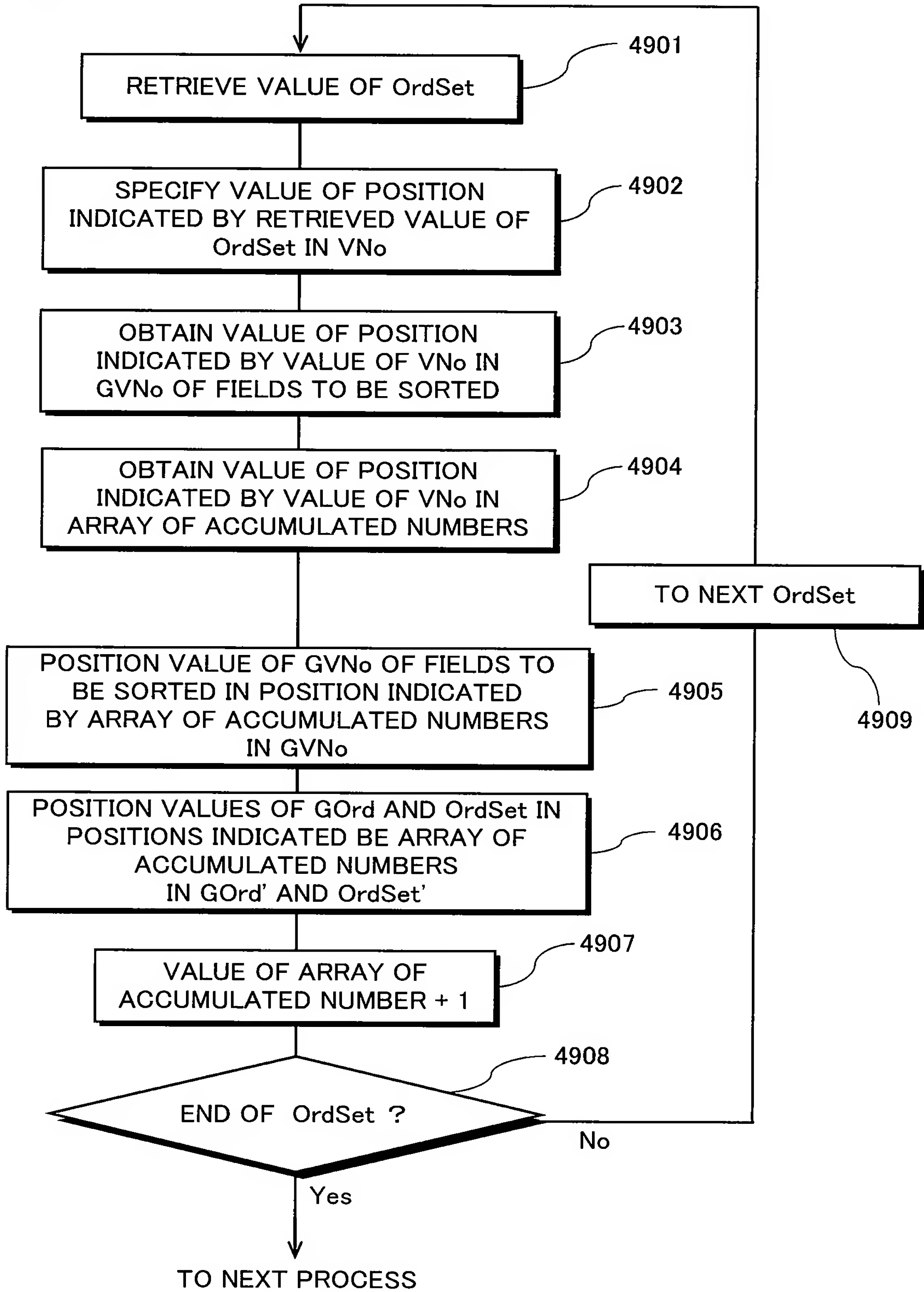


Fig.50

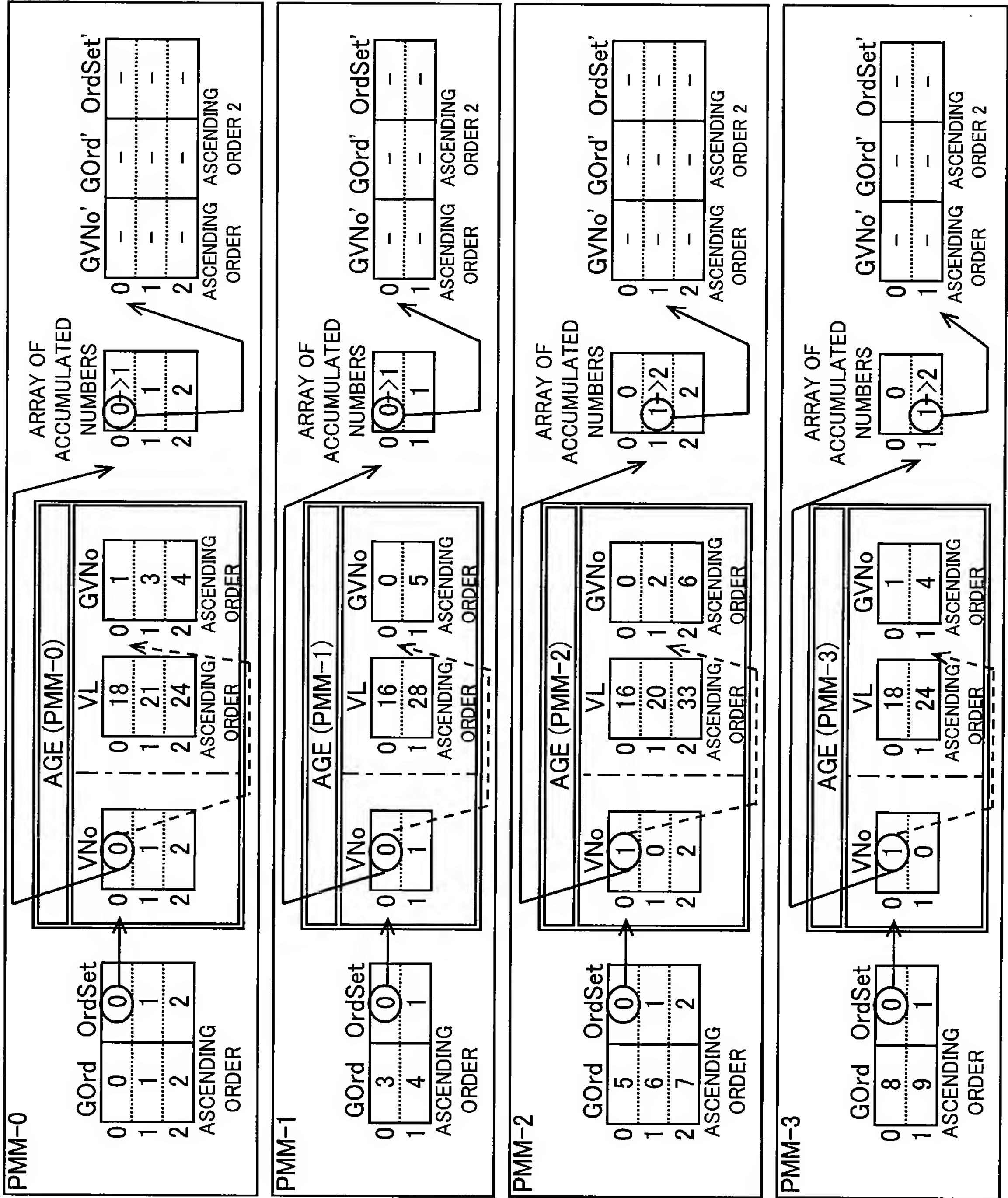


Fig.51

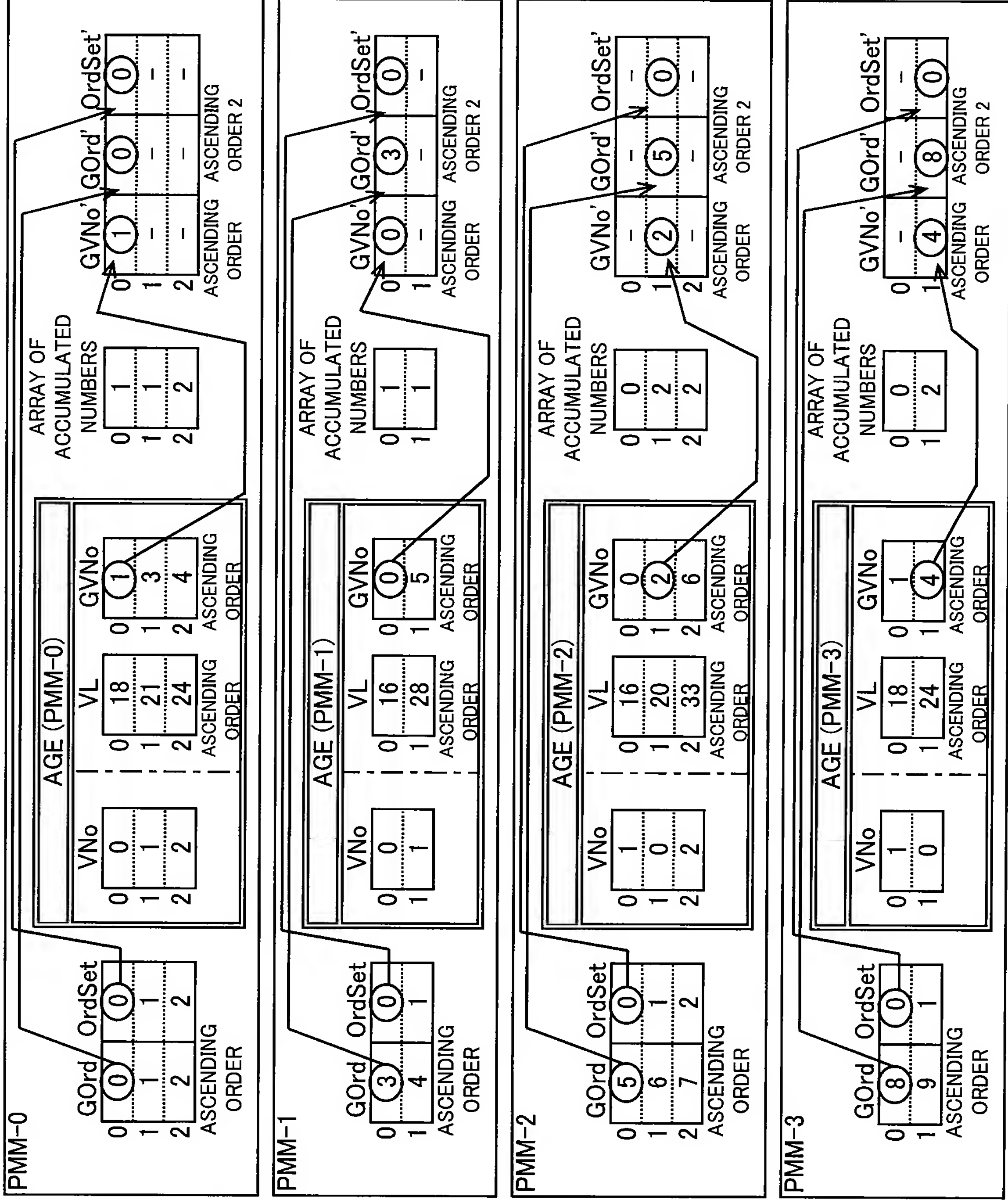


Fig.52

PMM-0						
ARRAY OF ACCUMULATED NUMBERS						
<table><tr><td>0</td></tr><tr><td>1</td></tr><tr><td>2</td></tr></table>				0	1	2
0						
1						
2						
	GVNo'	GOrd'	OrdSet'			
0	1	0	0			
1	3	1	1			
2	4	2	2			
ASCENDING ORDER		ASCENDING ORDER 2				

PMM-1					
ARRAY OF ACCUMULATED NUMBERS					
<table><tr><td>0</td></tr><tr><td>1</td></tr></table>				0	1
0					
1					
	GVNo'	GOrd'	OrdSet'		
0	0	3	0		
1	5	4	1		
ASCENDING ORDER		ASCENDING ORDER 2			

PMM-2						
ARRAY OF ACCUMULATED NUMBERS						
<table><tr><td>0</td></tr><tr><td>1</td></tr><tr><td>2</td></tr></table>				0	1	2
0						
1						
2						
	GVNo'	GOrd'	OrdSet'			
0	0	6	1			
1	2	5	0			
2	6	7	2			
ASCENDING ORDER		ASCENDING ORDER 2				

PMM-3					
ARRAY OF ACCUMULATED NUMBERS					
<table><tr><td>0</td></tr><tr><td>1</td></tr></table>				0	1
0					
1					
	GVNo'	GOrd'	OrdSet'		
0	1	9	1		
1	4	8	0		
ASCENDING ORDER	ASCENDING ORDER 2				

Fig.53A

GENERATION OF ARRAY

OrdSet	GVNo OF SEX	GVNo OF AGE	GOrd
0	1	2	0
1	0	0	1
2	1	1	2

Fig.53B

INITIALIZATION OF RANKS

OrdSet	RANK
0	0
1	0
2	0

Fig.53C

ASSIGNMENT OF RANK 1

OrdSet	RANK
0	0→1
1	0
2	0→1

Fig.53D

ASSIGNMENT OF RANK 2

OrdSet	RANK
0	1→2
1	0
2	1

Fig.53E

RESULT

RANK	OrdSet	GVNo OF SEX	GVNo OF AGE	GOrd
2	0	1	2	0
0	1	0	0	1
1	2	1	1	2

Fig.53F

RESULT

RANK	OrdSet	GVNo OF SEX	GVNo OF AGE	GOrd
0	1	0	0	1
1	2	1	1	2
2	0	1	2	0